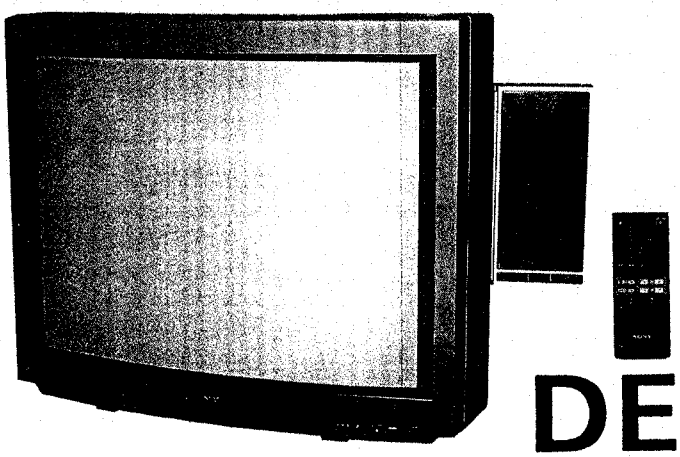
KV-D3421D
RM-684/SS-XT291

SERVICE MANUAL

AEP Model

Chassis No. SCC-C73B-A



DE-1 CHASSIS

Note: The service manual for RM-684 and SS-XT291 have been issued separately.

MODELS OF THE SAME SERIES	
KV-D3421D	
KV-D3411D	

SPECIFICATIONS

Television system	B/G/H, I, L
Colour system	PAL, SECAM, NTSC4.43, NTSC3.58
Channel coverage	See "Receivable Channels and Channel Displays"
Picture tube	Trinitron tube Approx. 86 cm (34 inches) Approx. 80 cm (picture measured diagonally) 110 degree deflection
Inputs	⊖-1 21-pin connector: CENELEC Standard ⊖-2 21-pin connector: RGB input unconnected 4-pin S video input connector Audio input jacks: phono jack
Outputs	External speaker terminals: 2-pin DIN Audio output jacks: phono jack — Output level dependent upon TV settings
Sound output	40 W + 40 W (music power)
Power consumption	146 Wh
Dimensions	Approx. 777 × 647 × 582 mm (w/h/d)
Weight	Approx. 73 kg
Supplied accessories	RM-684 Remote Commander (1) IEC designation R6 batteries (2)

Design and specifications are subject to change without notice.

MICROFILM

TRINITRON® COLOR TV

SONY®

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WARNING !!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.
THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

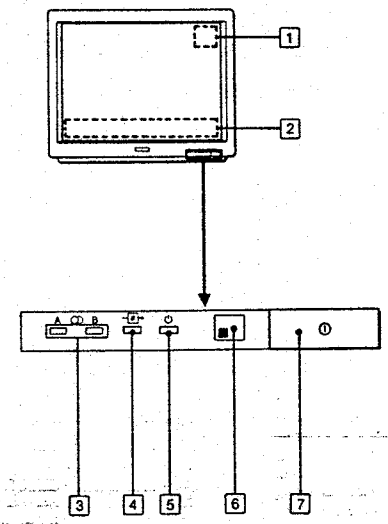
SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

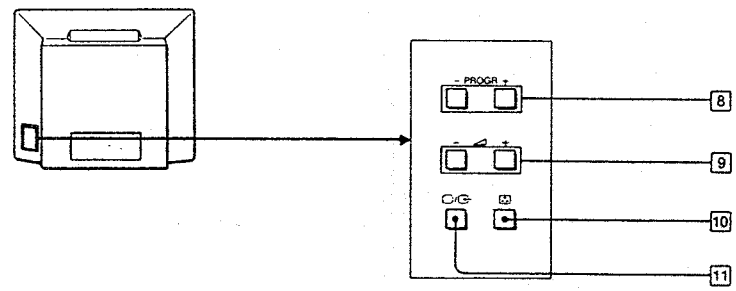
SECTION 1
GENERAL

1-1. LOCATION AND FUNCTION OF CONTROLS

Front



Rear



1 **On-screen display**
Indicates programme numbers, channel numbers, station labels, and input modes; ⊖-1, ⊖, ⊖-2 and Ⓢ-.
Press ⊖ on the Remote Commander to display them on the screen.

2 **Bar display**
Indicates the picture and sound adjustment items and their levels when they are adjusted.

3 **Stereo A/B indicator**
Both indicators light up when a stereo programme is received.

4 **Noise reduction indicator**

5 **⏻ Standby indicator**

6 **■ Remote control detector**
Point the Remote Commander towards this detector.

7 **⏻ POWER switch**
To cut off the mains electricity supply, press this switch. Ensure correct operation by pressing this switch fully.

8 **PROGR +/– buttons**
Use to scan the available programmes, and to return to the TV mode from the standby mode when the Remote Commander is not available.

9 **◿ VOLUME +/– buttons**

10 **Colour system button**
Press to select the colour system.

AUTO → PAL → SECAM → NTSC3.58 → NTSC4.43

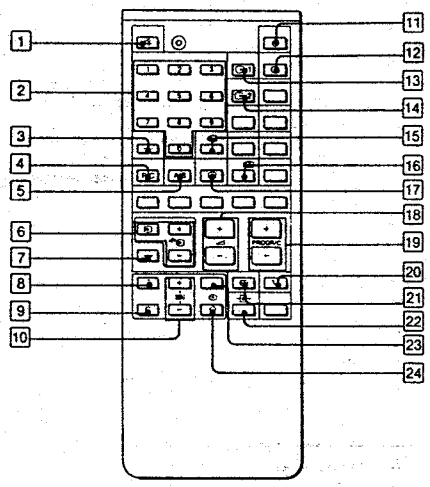
11 **▢/⊖ TV/VIDEO button**
Press to select the TV or one of the other input modes.

TV → ⊖-1 → ⊖ (RGB) → ⊖-2 → Ⓢ (Y/C)

⊖-1	Video signal through ⊖-1 (21-pin connector) is displayed on the screen.
⊖	RGB signal through ⊖-1 (21-pin connector) is displayed on the screen.
⊖-2	Video signal through ⊖-2 (21-pin connector) is displayed on the screen.
Ⓢ	S video signal through Ⓢ (S video input connector) and ⊖-2 (21-pin connector) is displayed on the screen. When you use S video equipment, make sure that the set is in the S video mode.

S video input
Video signals may be separated into Y (luminance) and C (chrominance) signals.
Usually these two signals are combined in a VTR and output as one signal, and supplied to a TV.
Separation of the Y and C signals prevent them from interfering with one another, thereby improving picture quality.
This set is equipped with an S video input connector through which these separated signals can be input directly.
Connect the S video output connector on the VTR to the S video input on this set.

To operate the TV with the Commander, point it toward the remote control detector. The buttons used for teletext operation are indicated in light green.
Buttons not referred to in this manual do not operate.



RM-684

1 **mute button**
Press to mute the sound.
Press again to restore the sound.

2 **0–9 buttons**
Use to select a programme or a channel number.

3 **–/– – button**
Use to select a programme number over 9.
To select 23, press –/– –, then 2 and 3.

4 **P/C (programme/channel) button**
Use to select the channel tuning mode or to return to the programme tuning mode.

5 **A/B bilingual button**
Press to select channel A (usually the local language) or B (usually the original language) of a bilingual programme.

6 **, +/–, picture and sound adjustment buttons**
There are two ways to use these buttons.

1. **When watching a TV programme**
   Press repeatedly until the on-screen display of the required item appears, i.e. picture, colour, brightness, hue, sharpness, bass, treble or balance.
   Adjust by pressing + or –.
2. **When presetting TV channels**
   For details, please see "To preset channels".

7 **reset button**
Press to reset the picture and sound adjustment to the factory-set levels.

8 **Preset button**
Press to display a preset mode.

9 **C (clear) button**
Press to cancel a station memory content.

10 **+/– Search button**
Used when presetting channels.

11 **standby button**
Press to turn the set into the standby mode. Use this facility to turn off the set for short periods of time. To return to TV mode, press TV or the programme number on the Remote Commander.

12 **TV button**
Press to change to TV mode from standby, video input or teletext mode.

13 **1 input button**
Press to view the input picture coming in through the 1 connector.
Each time this button is pressed, 1 and will appear alternately.
Press or the programme number to return to the TV mode.

14 **2 input button**
Press to view the input picture coming in through the 2 or connectors. Each time this button is pressed, 2 and will appear alternately.
Press or the programme number to return to the TV mode.

15 **CATV button**
Use to select CATV channels.

16 **Time button**
In TV mode, press to display the present time on the screen, and again to make it disappear. This function is available only when the teletext service is broadcast in the selected channel.

17 **On-screen display button**
Press to make the display appear on the screen.
Press again to make it disappear.

18 **Volume +/– buttons**

19 **PROGR/C +/– buttons**
Used to scan the available programmes or channels.

20 **loudness button**
Press to emphasize high and low tones. Press again to restore the normal sound. (The indicator on the screen is .)

21 **space sound button**
Press to obtain special acoustic effects. Press again to restore normal sound. (The indicator on the screen is .)

22 **Noise reduction button**
Press to reduce noise on the picture. The indicator on the set lights up.

23 **TV system select button**
Press to select the TV system.
B/G → L → I

24 **store button**
Used when presetting channels.

1-2. PREPARATION FOR USE

1 **Connect the aerial to the socket on the rear of the set.**
This socket receives the standard 75-ohm aerial plug.

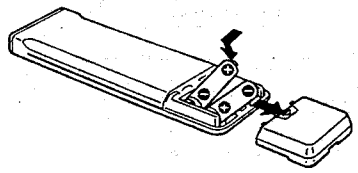
2 **Connect the optional speakers to the speaker terminals on the rear of the set.**

3 **Plug in the set.**

4 **Insert two R6 batteries checking the correct polarity.**
See the illustration below.

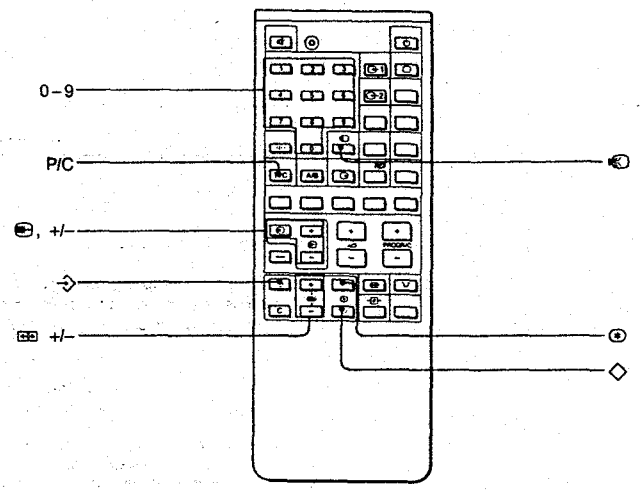
5 **Press power switch on the set.**

6 **Preset the available channels.** (See "To Preset Channels".)



1-3. TO PRESET CHANNELS

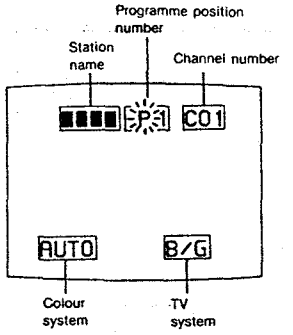
Buttons used for presetting channels



You can preset a channel to a desired programme position.
Use the buttons on the Remote Commander.

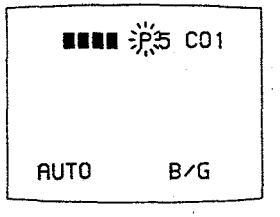
Example: Preset channel 32 to programme position 5.

1 Press (preset).
"P" flashes.

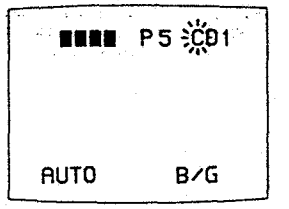


Press button on the right hand side of the TV to set the colour system to AUTO.
Press on the Remote Commander to select the appropriate TV system.

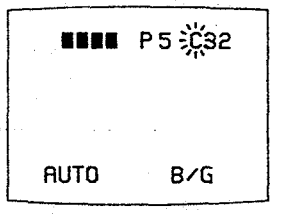
2 Select a desired programme position number by pressing a number button on the Remote Commander.



3 Press P/C.
"C" flashes.



4 Select a desired channel number by pressing a number button on the Remote Commander.
e.g. To tune in channel number 32, press 3 and then 2.
To tune in channel number 4, press 0 and then 4.

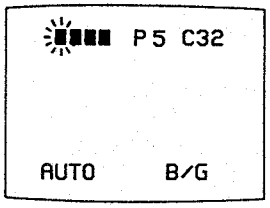


If you don't know the channel number,
tune in a higher or lower numbered station by pressing +/–. Channel searching starts. The channel number increases or decreases until a TV station is tuned in.

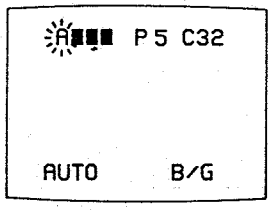
To tune in a CATV channel,
press , then select a desired a channel number by pressing a number button.

Continued

5 **If you want to give a station a name**
Press ⊟.
The first position of the station name flashes.



Select a desired character by pressing ⊟ +/–.
The numbers 0–9 and the letters A–Z will appear sequentially.



To make the second position flash, press ⊟ again and select a desired character by pressing ⊟ +/–.
Thus four characters can be displayed by repeating the steps above.
To make a position blank, leave ■ as is.

When the last column flashes, press ⊟.
"P" starts flashing.

6 **After you have selected all the numbers and characters displayed on the screen, press ◇ to store the data.**
"P" starts flashing.
If you want to preset more channels, repeat steps 2 to 6.

7 **Press ⇨. The display will return to the previous state.**

Note

If you want to skip a certain programme position:
1 Press ⇨.
2 Select a programme position number to be skipped.
3 Press C and then ◇.

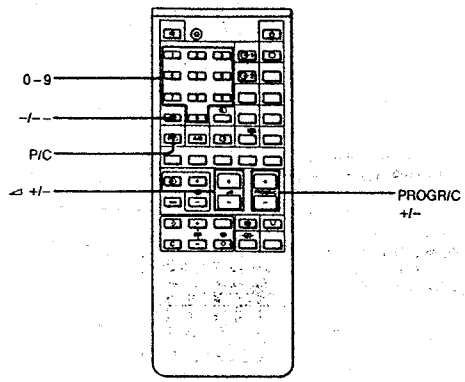
The next time the programme +/– button is pressed, the progamme position will be skipped.
If you want to skip more programme positions, repeat steps 2 and 3.

Note on colour system button (⊡)
Normally, set to AUTO. If abnormal or no colour picture appears, press this button to select the system which produces normal colour.
The indications will appear as follows:
AUTO → PAL → SECAM → NTSC3.58 → NTSC4.43

Note on TV system button (⊙)
If the sound is distorted or noisy, press this button to select the system which produces clear sound.
The indications will appear as follows:
B/G → L → I

B/G: West European countries except France and the UK
L: France
I: UK

1-4. WATCHING TV PROGRAMMES



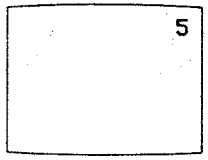
1 **Press ⏻ (POWER) switch on the set to turn the TV on.**

2 **Select a programme in one of the following two ways:**

To select by programme position number

Press P/C to change into the programme tuning mode.

(a) For direct programme tuning for the programme under 10, press 0, 1, 2, 3, ... 9.



(b) For direct programme tuning for the programme over 9, press –/– – and two number buttons.
(e.g. for programme 32, press –/– –, 3 and then 2)

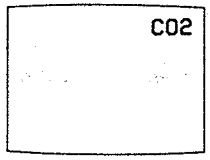
(c) For sequential programme up/down tuning, press PROGR/C +/–.

Note
When pressing two number buttons, the second button should be pressed within 5 seconds. Otherwise the operation will be cancelled and the display will return to the original one.

To select by channel number

Press P/C to change into the channel tuning mode.

(a) For direct channel tuning for normal channel, press two number buttons sequentially.
(e.g. for channel 2, press 0 and 2)
For CATV channels, press ◀C before pressing the number buttons.

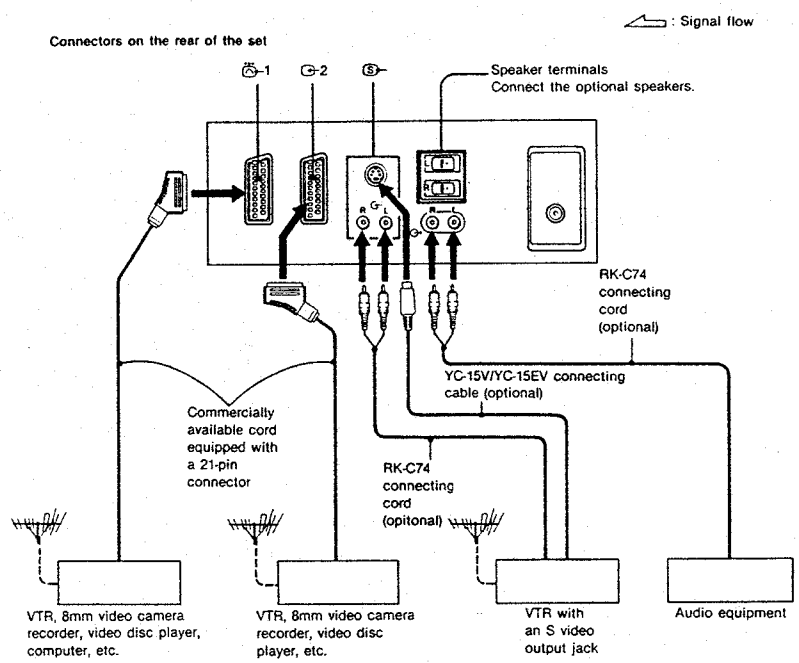


Note
The second button should be pressed within 5 seconds. Otherwise the operation will be cancelled and the display will return to the original one.

(b) For sequential channel up/down tuning, press PROGR/C +/–.

3 **Press ⊿ (volume) +/– buttons to adjust the volume.**

1-5. CONNECTING OTHER EQUIPMENT



Notes

- Move the VTR away from the TV if the picture or sound is distorted.
- It is also possible to connect a VTR using the 21 socket.
- Computers which have RGB output only cannot be connected to 2.
- Do not connect VTRs to both 2 and S at the same time.

1-6. VIEWING TELETEXT

To view the teletext service, use the Remote Commander.
The buttons for teletext operation are indicated in green.

Operation

1 Select the TV channel for the desired teletext service. When the signal is weak, teletext errors may often occur.

2 Press (TEXT/MIX) to display the teletext service.
The teletext service can be displayed directly from the standby mode by pressing .
Once has been pressed, the TV channel cannot be changed.

3 Key in the three digits of the desired page using the number buttons. If an error is made, complete the three-digit sequence by keying in any digit.
Then re-enter the correct page number. The requested teletext page is displayed.

How to Activate Various Functions

To display the index page	Press (INDEX). If the necessary signal is not being broadcast, page 100 is displayed.
To access the next or preceding page	Press (PAGE+) or (PAGE−).
To superimpose the teletext display on the picture	Press twice from TV mode. Press again to return to the TEXT display.
To suppress the teletext display so that the TV picture is displayed.	Press (TEXT CL). This button can be operated from both the TEXT and MIX displays.
To prevent a teletext page (subpage) from being updated/changed	Press (HOLD). The HOLD symbol appears at the top of the screen.
To resume normal teletext reception	Press .
To enlarge the teletext display	Press once to enlarge the upper half of the display; press again to enlarge the lower half of the display. And press again to return to the normal display.
To reveal concealed information such as answers to a quiz	Press (REVEAL). Press again to conceal the answers.

To adjust the contrast of the teletext display

When in teletext mode, adjust by using the + or – buttons adjacent to the button.

To watch the TV programme while waiting for a requested page to be displayed

1 Request the new page.
2 Press to watch the TV programme.
The requested page number and other data appears at the top of the screen while the page number is being searched for.
When the requested page has been captured, the page number remains on the screen and the other data disappears.

P101 (TV picture)

To view this page, press /.

To have a requested page displayed at a pre-determined time

1 Request a time coded page (e.g. alarm page).
2 Press (TP ON).
"T****" will appear at the bottom of the screen.

T****

3 Enter your request time with the number buttons, using four digits. For example, 0730.

T0730

To watch the TV programme until the requested time, press .
At the requested time, the page number will be displayed at the top of the screen.
To view this page, press /.
To cancel the request, first ensure that the teletext page is displayed, then press (TP OFF).

To return to the TV mode

Press on the Remote Commander.

To receive the teletext service of a different TV channel

1 Press to return to the TV mode.
2 Select the desired TV channel.
3 Press /.

1-7. RECEIVABLE CHANNELS AND CHANNEL DISPLAYS

The following tables show the receivable channels and the corresponding indications for each TV and colour system.
Check the TV and colour system in your area, then display the indication (in the right column) which corresponds to the channel (in the left column) you wish to view.

PAL B/G

Receivable channel	Indication displayed on the screen
E 2	C 02
3	C 03
4	C 04
⋮	⋮
12	C 12
21	C 21
⋮	⋮
69	C 69

Italy

A	C 13
B	C 14
C	C 15
D	C 16
E	C 17
F	C 18
G	C 19
H	C 20
H1	C 11
H2	C 12

Cable TV (1)

Receivable channel	Indication displayed on the screen
S 1	01
2	02
⋮	⋮
41	41

Cable TV (2)

S 01	42
⋮	⋮
S 05	46
M1	01
⋮	⋮
M10	10
U 41	11
⋮	⋮
U 10	20

French SECAM-L

Receivable channel	Indication displayed on the screen
2	C 02
3	C 03
⋮	⋮
10	C 10
21	C 21
⋮	⋮
69	C 69

French Cable TV

B	02
C	03
D	04
⋮	⋮
O	15
P	16
Q	17

PAL-I Ireland

Receivable channel	Indication displayed on the screen
A	C 501
B	C 02
C	C 03
D	C 04
E	C 05
F	C 06
G	C 07
H	C 08
J	C 09

PAL-I UK

21	C 21
⋮	⋮
69	C 69

1-8. PRECAUTIONS

Safety

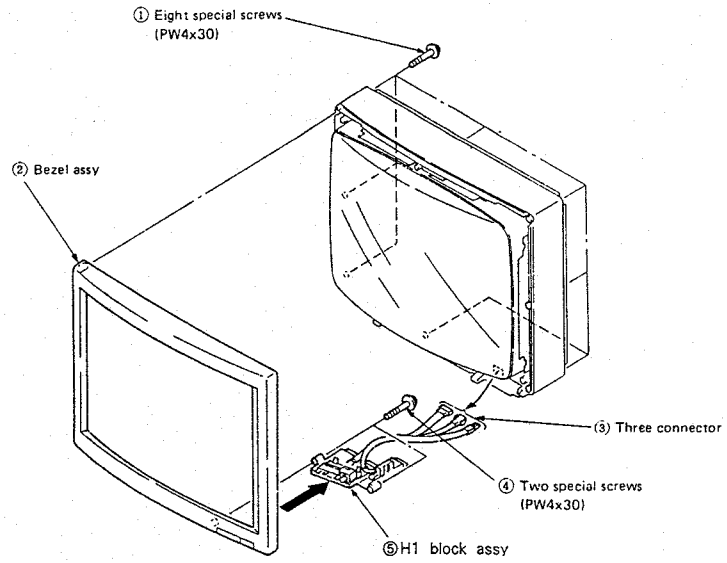
- Operate the set only on 220–240 V AC, 50 Hz.
- If the AC cord becomes damaged refer servicing to qualified personnel only.
- Should any liquid or solid object fall into the cabinet, unplug the set and have it checked by qualified personnel before operating it any further.
- Unplug the set from the wall outlet if it is not going to be used for several days or more. To disconnect the cord, pull it out by the plug. Never pull the cord itself.

Installation

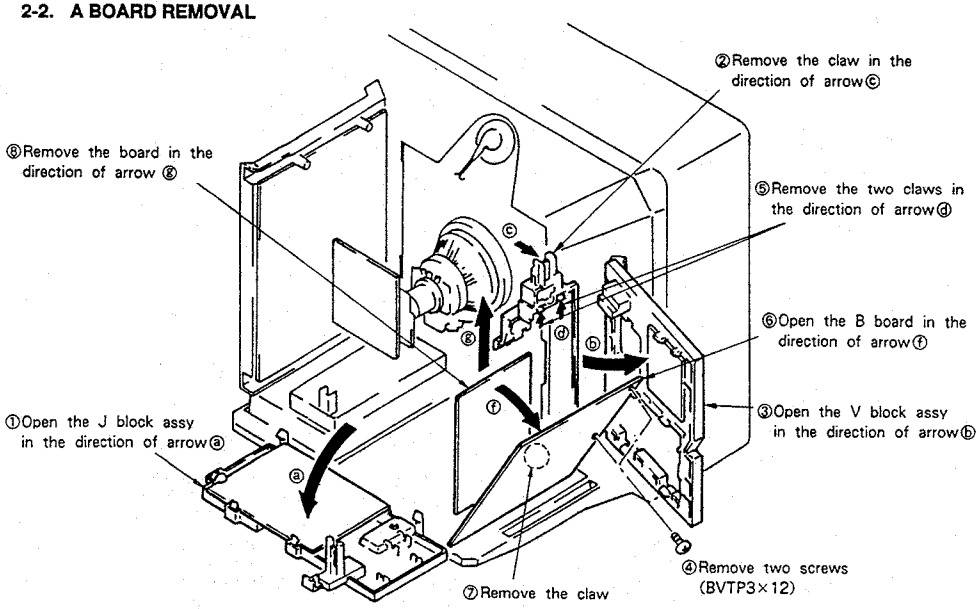
- To prevent internal heat build-up, do not block the ventilation openings.
- Do not install the set in a hot or humid place or in a place subject to excessive dust or mechanical vibration.

SECTION 2
DISASSEMBLY

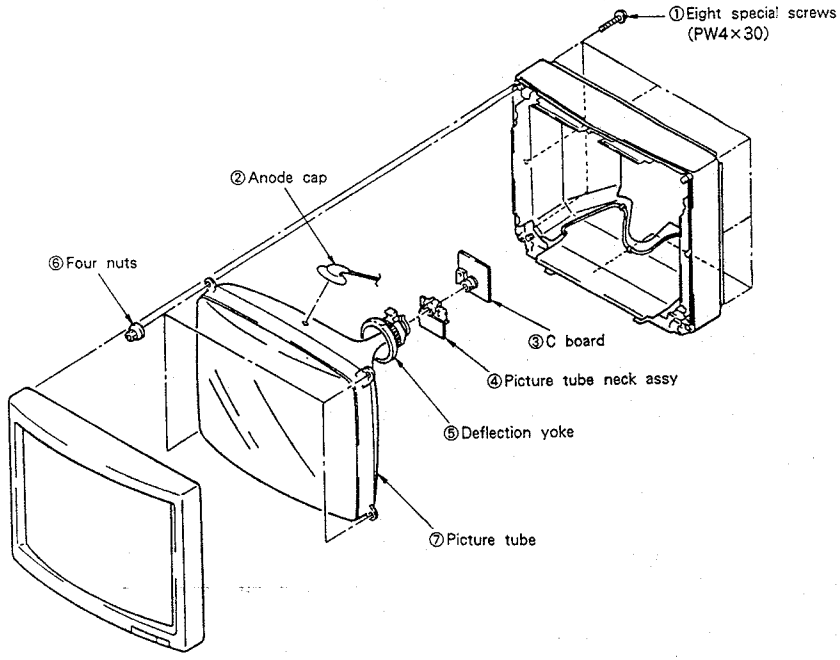
2-1. H1 BLOCK ASSY REMOVAL



2-2. A BOARD REMOVAL

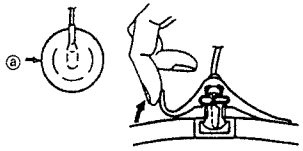


2-3. PICTURE TUBE REMOVAL

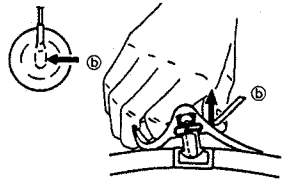


2-4. REMOVAL OF ANODE CAP

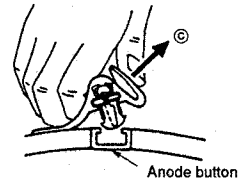
• **REMOVING PROCEDURES**



① Turn up one side of the rubber cap in the direction indicated by the arrow ⓐ.



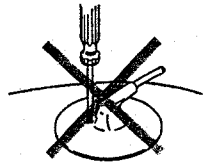
② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ⓑ.

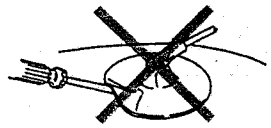


③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow ⓒ.

• **HOW TO HANDLE AN ANODE-CAP**

① Don't hurt the surface of anode-caps with sharp shaped material !
② Don't press the rubber hardly not to hurt inside of anode-caps !
A metal fitting called as shatter-hook terminal is built in the rubber.
③ Don't turn the foot of rubber over hardly !
The shatter-hook terminal will stick out or hurt the rubber.





SECTION 3
SET-UP ADJUSTMENTS

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
- These adjustments should be performed with rated power supply voltage unless otherwise noted.

The control and switch below should be set as follows unless otherwise noted :

◑CONTRAST control ····· 80% (or Normal by Commander)
☼BRIGHTNESS control ····· 50%

Perform the adjustments in order as follows :
1. Beam Landing
2. Convergence
3. Focus
4. White Balance

Note : Test Equipment Required.
1. Color Bar/Pattern Generator
2. Degausser
3. DC Power Supply
4. Digital multimeter
5. Oscilloscope

Preparation
- Set the side of the unit with the PICTURE TUBE so that it faces east or west in order to reduce the influence of external magnetic force.
- Turn the power switch for the unit ON and erase the magnetic force using a degausser.

3-1. BEAM LANDING

1. Position neck protector ass'y as shown in Fig. 3 – 1.
2. Input a raster signal with the pattern generator.
   CONTRAST } normal
   BRIGHTNESS }
3. Turn the raster signal of the pattern generator to red.
4. Move the deflection yoke backward, and adjust with the purity control so that red is in the center and blue and green are at the sides, evenly. (Fig. 3 – 2. ~ 3 – 4.)
5. Move the deflection yoke forward, and adjust so that the entire screen becomes red. (Fig. 3 – 2.)
6. Switch over the raster signal to blue and green and confirm the condition.
7. When the position of the deflection yoke is determined, tighten it with a deflection yoke mounting screw.
8. When landing at the corners is not right, adjust by using the magnet. (Fig. 3 – 5.)

Fig. 3 – 1.

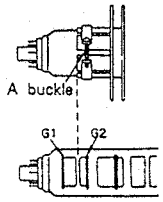


Fig. 3 – 2.

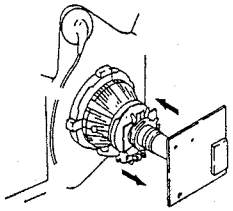


Fig. 3 – 3.

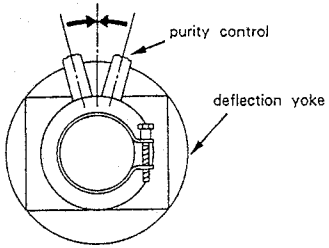


Fig. 3 – 4.

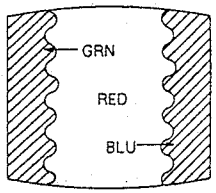
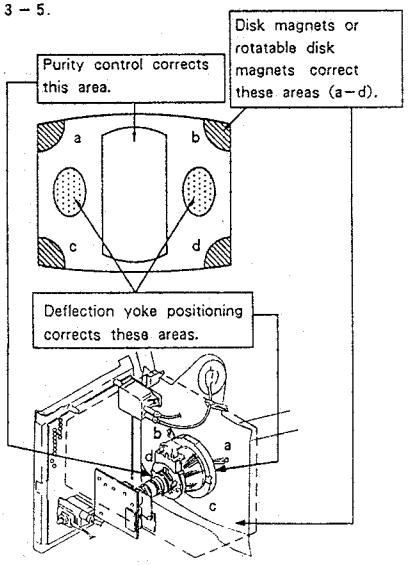


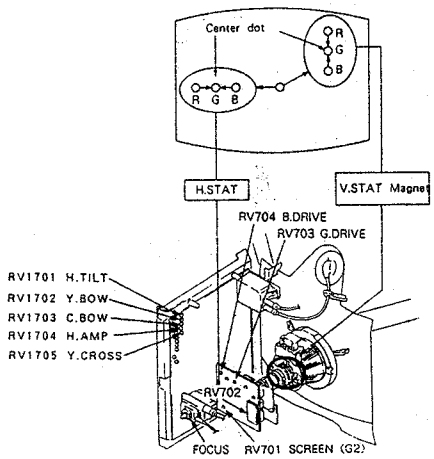
Fig. 3 – 5.



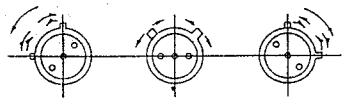
3-2. CONVERGENCE

Preparation :
- Before starting, perform FOCUS, H. SIZE and V. SIZE adjustments.
- Set BRIGHTNESS control to minimum.
- Feed in the dot pattern.

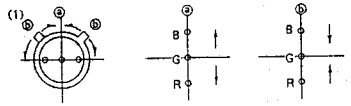
1. Horizontal and Vertical Static Convergence

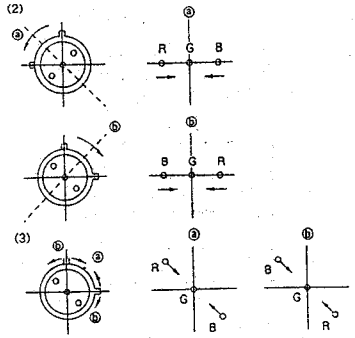


(1) Adjust H. STAT VR to coincide red, green and blue dots on the center of screen.(Horizontal movement)
(2) Adjust V. STAT magnet to coincide red, green and blue dots on the center of screen.(Vertical movement)
(3) If the red, green and blue dots do not coincide on the center of screen with H. STAT VR, perform horizontal convergence adjustment using H. STAT VR and V. STAT magnet as shown below.
(In this case, H. STAT VR and V. STAT magnet effect each other.)
- Tilt the V. STAT magnet and adjust static convergence to open or close the V. STAT magnet.

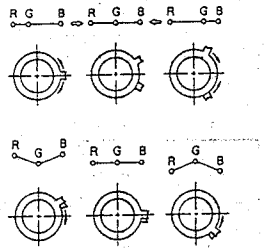


(4) When the V. STAT magnet is moved in the direction of arrow ⓐ and ⓑ, red, green and blue dots move as shown below.

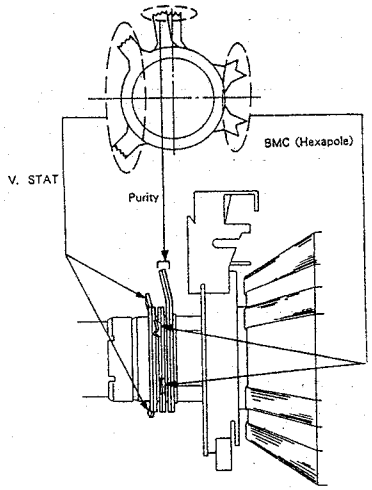




2. Operation of BMC (Hexapole) Magnet



- The respective dot operations resulting from the operation of each magnet are not completely independent, so be sure to perform adjustment while tracking.
Use the H. STAT VR to adjust the red, green, and blue dots so they coincide at the center of screen (by moving the dots in the horizontal direction).



3. Dynamic Convergence Adjustment

(1) Adjust the Y·CROSS (RV1705) and Y·BOW (RV1702), so that RED and BLUE shown in Fig3-6 will become a=b=c.

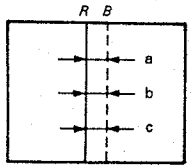


Fig. 3-6

(2) Match the horizontal convergence at the center of the screen with H STAT VR.
(3) Adjust the CORNER BOW (RV1703), so that RED and BLUE shown in Fig3-7 will become a=b=c and d=e=f.
Note: At this point, if the relationship between a=c or d=f is not established, adjust the Y·CROSS (RV1705) again.

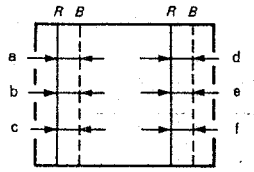


Fig. 3-7

(4) Match the horizontal convergence at the center of the screen with the H STAT VR.
(5) Adjust the H TILT (RV1701) so that the RED and BLUE shown in Fig3-8 will become a=b.

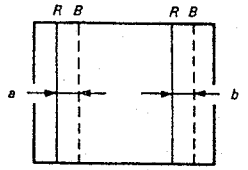


Fig. 3-8

(6) Adjust the H AMP (RV1704) so that the RED and BLUE shown in Fig3-9 will become b = c

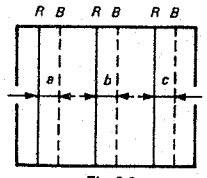
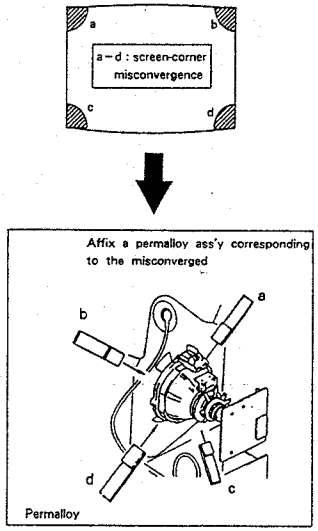


Fig. 3-9

(7) Match the horizontal convergence at the center of the screen with the H STAT VR.
(8) When the H AMP is adjusted repeat the procedures described in Steps (5) to (7).
(9) If divergence of the convergence exists at the corner of the screen, the adjustments described in Steps after (3) should be repeated.

4. Screen-corner Convergence



3-3. WHITE BALANCE

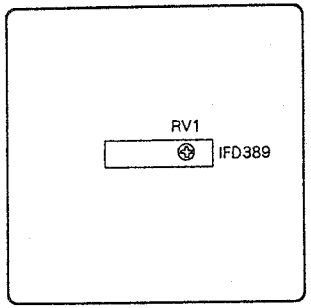
(Screen (G2) Setting)
1. Input dot signals from the pattern generator.
2. Set the picture BRIGHTNESS control to the minimum level.
3. Apply 180 V dc to the cathodes of R, G, and B from an external power source.
4. While watching the picture; adjust the G2 volume (RV701) immediately before the fly-back line disappears.

(White Balance Adjustment)
1. Input all-white signals from the pattern generator.
2. Adjust the BRIGHTNESS and COLOR controls to the standard level.
3. Adjust the white balance using RV704 (B DRIVE) and RV703 (G DRIVE).

In the following adjustments, the CONTRAST COLOR and BRIGHTNESS controls are set to normal unless otherwise specified.

SECTION 4
CIRCUIT ADJUSTMENTS

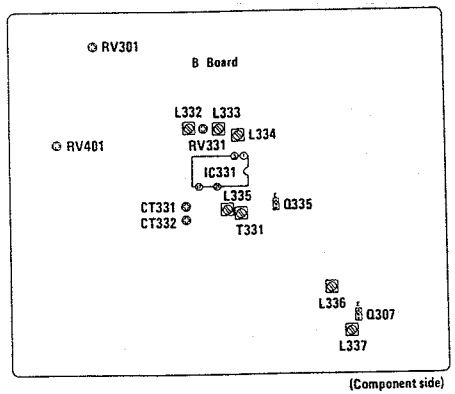
4-1. A BOARD ADJUSTMENT



(Component side)

TUNER AGC Adjustment
1. Tune in an off–air signal.
2. Adjust AGC VR on IFD389 so that snow–noise and cross–modulation just disappear from the picture.

4-2. B BOARD ADJUSTMENTS

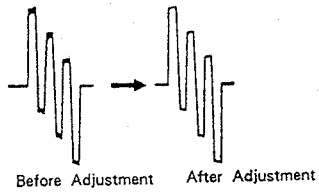


(Component side)

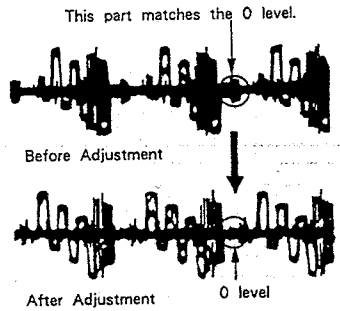
REC OSC NTSC 3.58 MHz Adjustment (CT331)
1. Input a NTSC 3.58 MHz COLOR BAR pattern.
2. Short circuit between pin ⑰ of IC331 and ground.
3. Adjust CT331 to get the slowest movings of picture.
4. Remove the jumper wire from IC331.

REF OSC Adjustment NTSC 4.43 MHz Adjustment (CT332)
1. Input a NTSC 4.43 MHz COLOR BAR pattern.
2. Short circuit between pin ⑰ of IC331 and ground.
3. Adjust CT332 to get the slowest movings of picture.
4. Remove the jumper wire from IC331.

1H DELAY LINE Adjustment (L332, RV331)
1. Input PAL COLOR BAR pattern.
2. Connect the oscilloscope to pin ① (R – Y) of IC331.
3. Adjust L332 to minimize the double waveform outline.



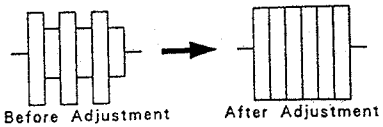
4. Input a TEST COLOR BAR pattern.
5. Rotate the RV331 control and adjust till the ANT PAL of the waveform part matches the 0 level.



6. L332 and RV331 affect each other. Repeat till the conditions of both meet.

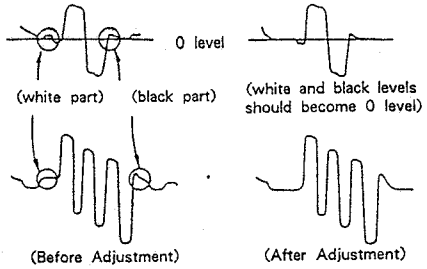
SECAM ID Adjustment (L335)
1. Input a SECAM COLOR BAR pattern.
2. Connect a Digital Multimeter at pin ㉑ of IC331.
3. Adjust L335 so that the indicator goes up to the maximum.

BELL FILTER Adjustment (T331)
1. Input a SECAM COLOR BAR pattern.
2. Connect an oscilloscope to the Q335 emitter.
3. Adjust T331 so that the waveform becomes flat.
4. L335 and T331 tracking adjustment is required.



SECAM DISCRI Adjustment (L333, L334)

1. Input a SECAM COLOR BAR pattern.
2. Connect an oscilloscope to pin ① of IC331.
3. Adjust L333 so that white and black parts of the waveform of pin ① becomes 0 level.
4. Connect an oscilloscope to pin ③ of IC331.
5. Adjust L334 so that white and black part of the waveform of pin ③ becomes 0 level.



4.25 TRAP Adjustment (L336)

1. Input SECAM COLOR BAR pattern.
2. Connect oscilloscope to the Q307 emitter.
3. Adjust L336 so that 4.25 MHz waveform to minimum.

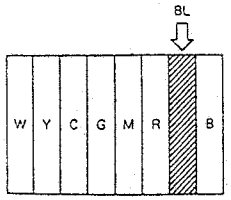
4.43 TRAP Adjustment (L337)

1. Input SECAM COLOR BAR pattern.
2. Connect oscilloscope to the Q307 emitter.
3. Adjust L337 so that 4.43 MHz waveform to minimum.

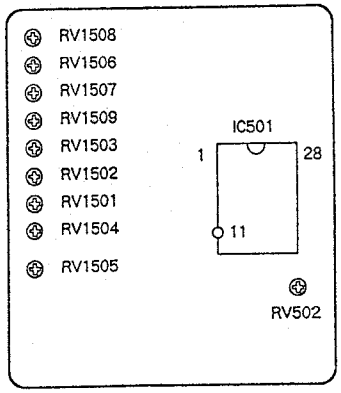
SUB BRT Adjustment (RV301)

1. Set BRIGHTNESS = 50%
   COLOR = 50%
   CONTRAST = Minimum

2. Adjust RV301 (SUB BRIGHT) so that the blue stripe portion on the color-bar pattern signal is bright dimly.
   color-bar pattern



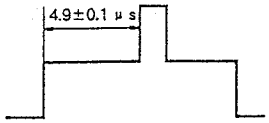
4-3. D BOARD ADJUSTMENT

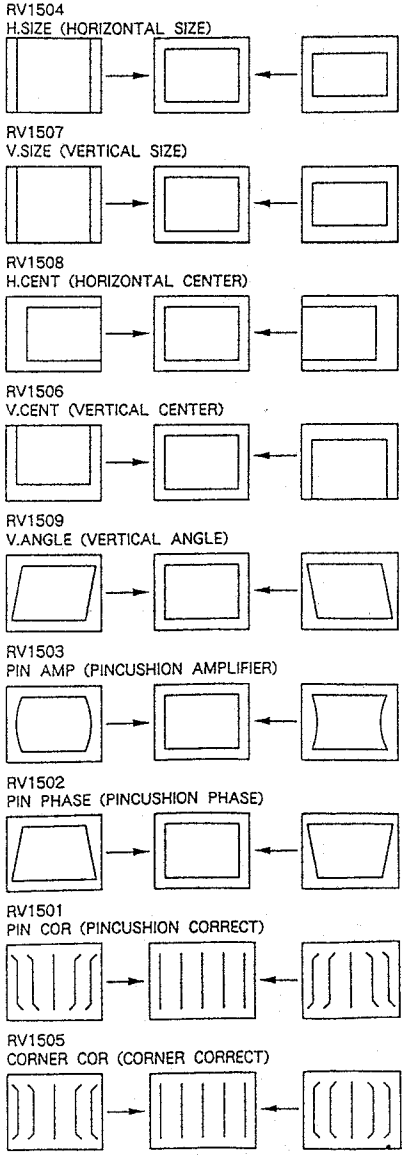


(Component side)

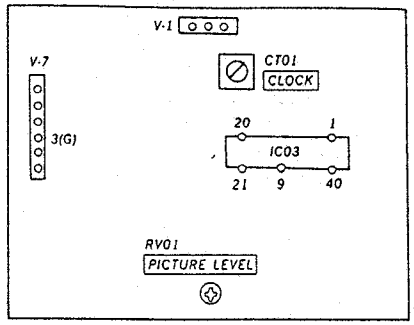
H. PHASE Adjustment (RV502)

1. Input a PAL COLOR BAR pattern.
2. Set the CONTRAST and BRIGHTNESS controls to the standard positions.
3. Set RV1508 (H. CENT) to the mechanical center position.
4. Connect an oscilloscope to pin ⑪ (SPC OUT) of IC501.
5. Rotate RV502 and adjust Block T to 4.9±0.1 μs.





4-4. V BOARD ADJUSTMENTS

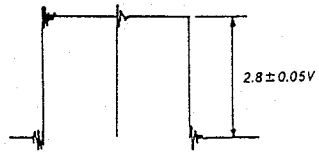


CLOCK Adjustment (CT01)

1. Disconnect V-1 connector.
2. Connect frequency counter to pin ⑨ of IC03.
3. Adjust CT01 to 6.0 MHz ± 50 Hz.
4. Connect V-1 connector.

PICTURE LEVEL Adjustment (RV01)

1. Connect oscilloscope to G output of V-7 connector.
2. Adjust RV01 so that G output level (black level to white peak) is 2.8 ± 0.05V.



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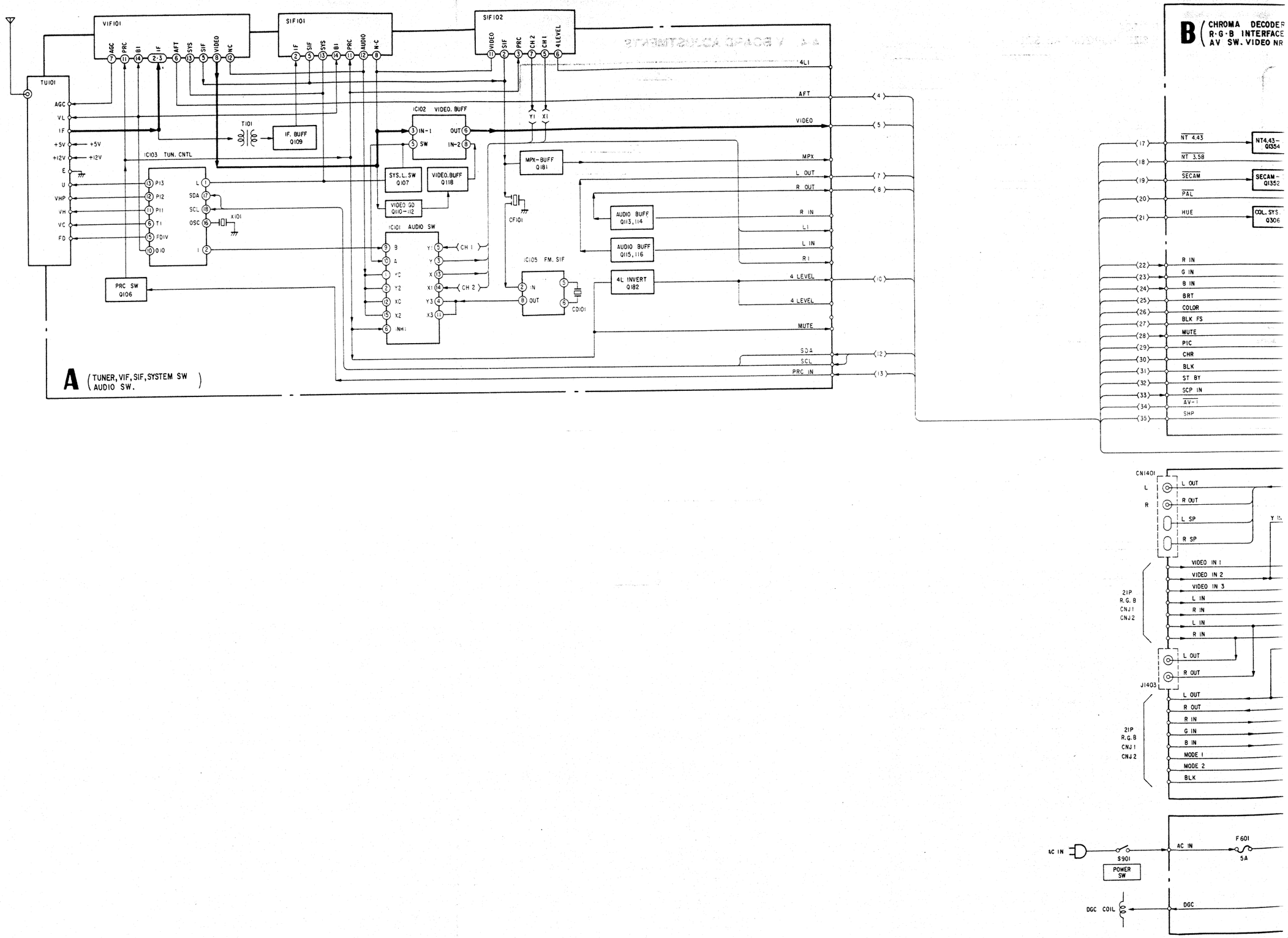
SECTION 5
DIAGRAMS

5-1. BLOCK DIAGRAMS (1)



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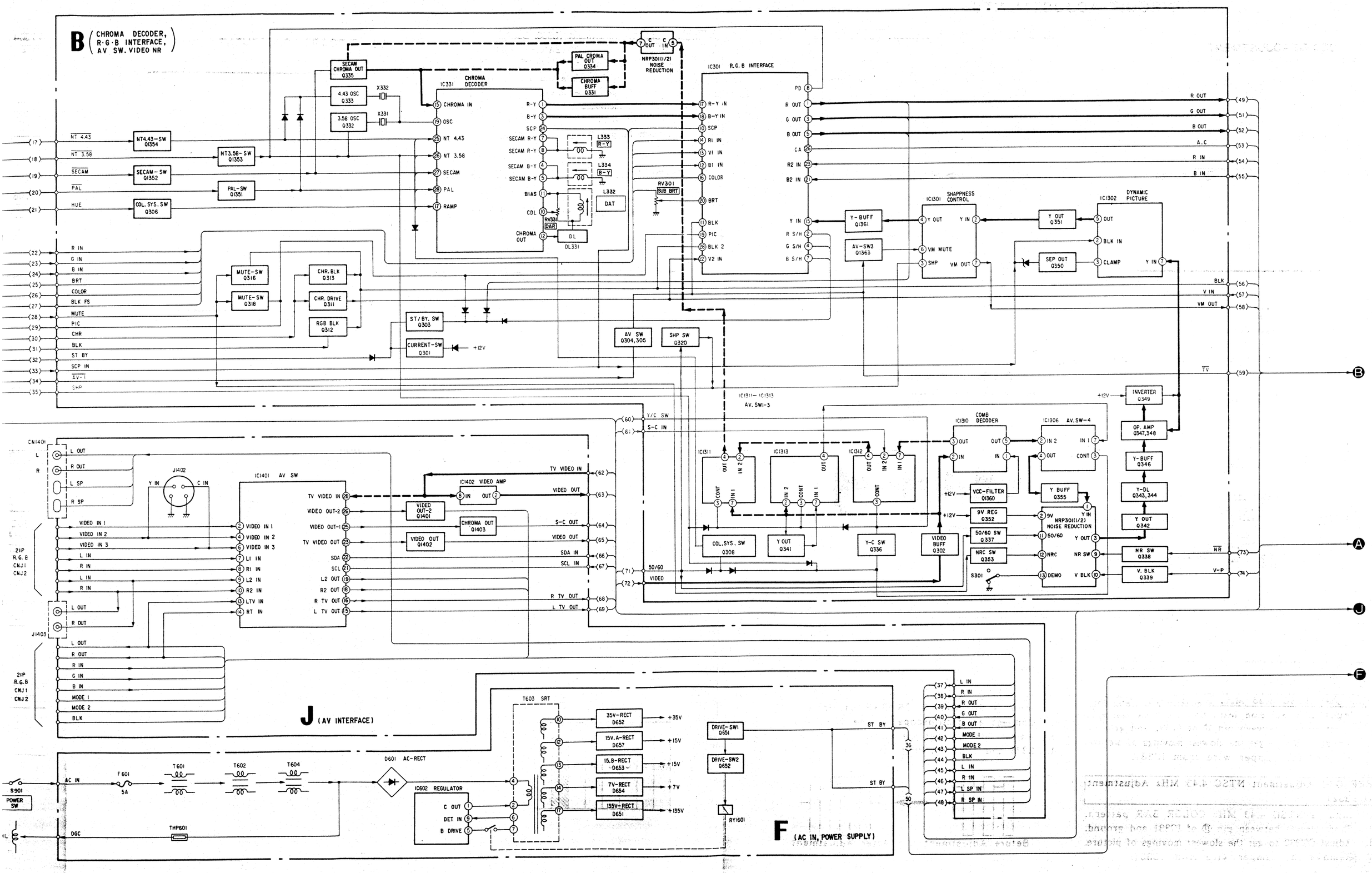

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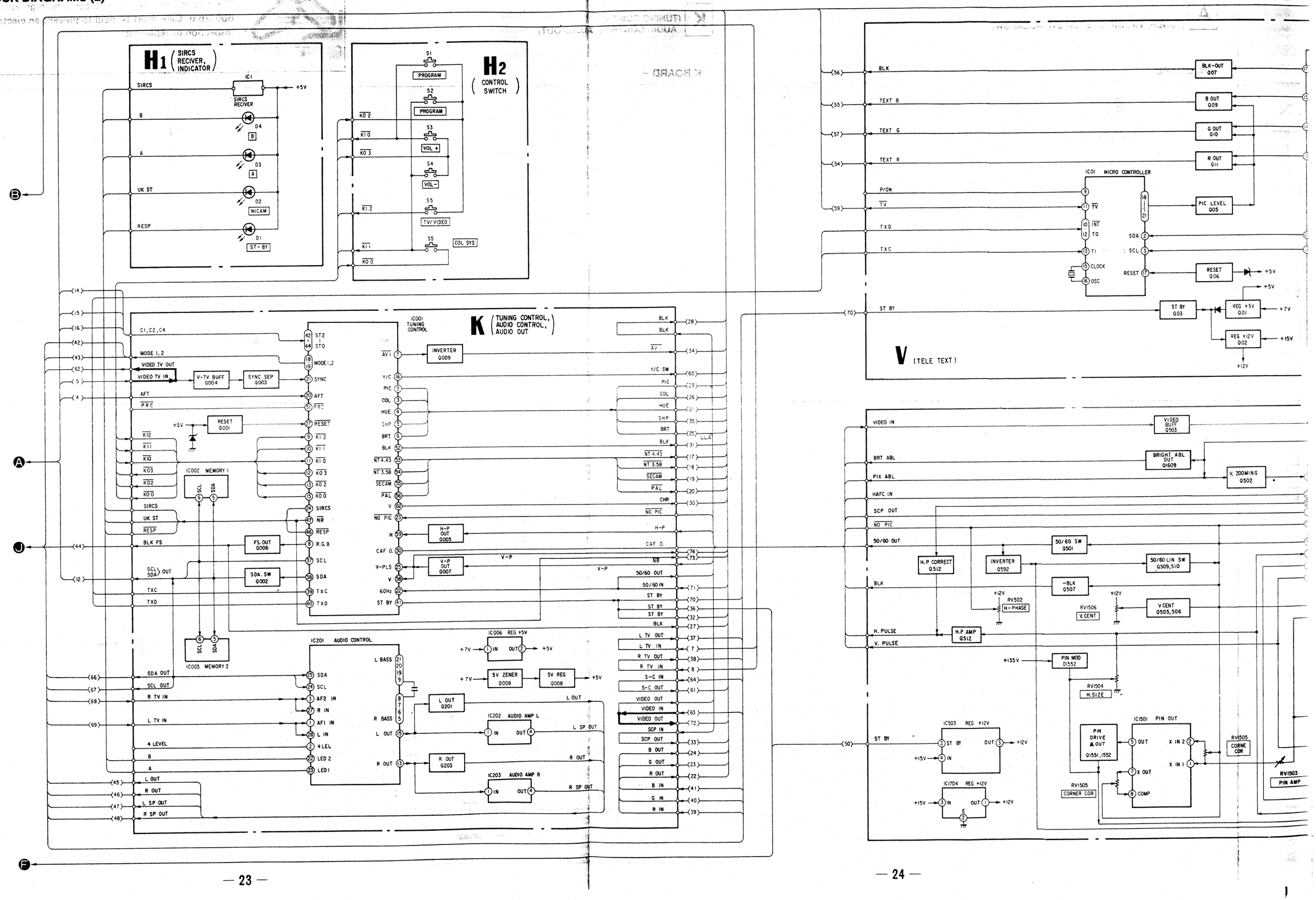
5-2. BLOCK DIAGRAMS (2)



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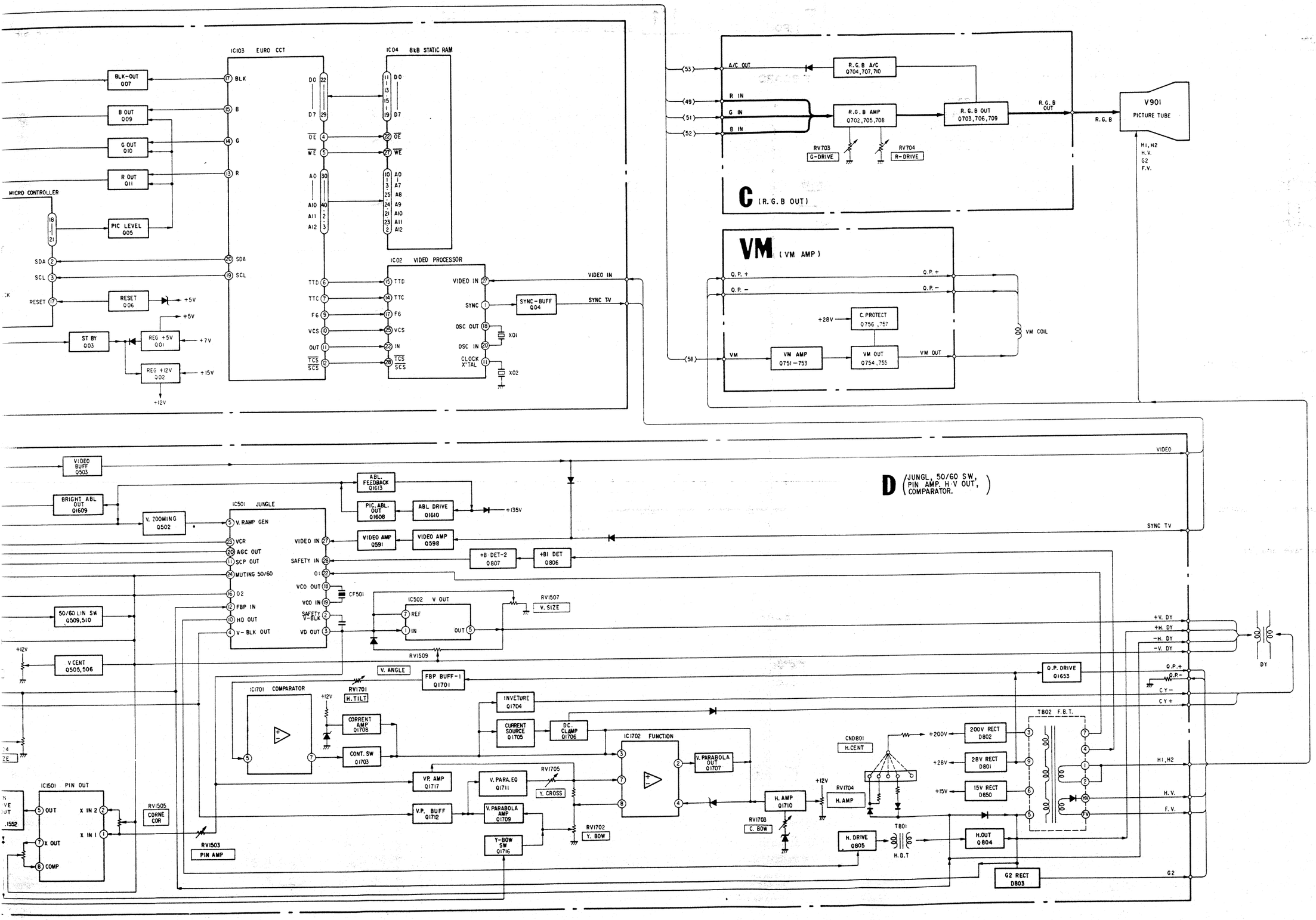

KV-D3421D
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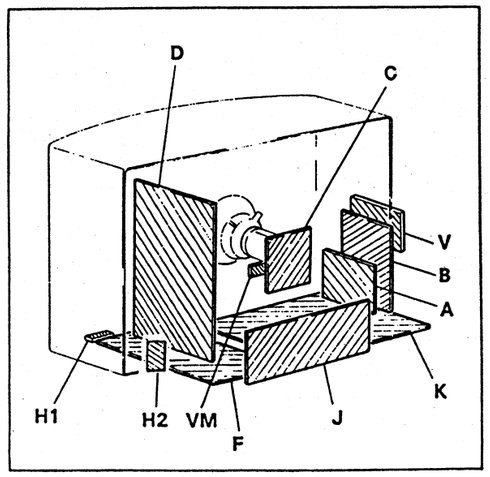
5-3. CIRCUIT BOARDS LOCATION



5-4. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS — Conductor Side —

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Note:

- All capacitors are in μF unless otherwise noted. p:μμF 50WV or less are not indicated except for electrolytic and tantalums.
- Electrolytic capacitors with resisting pressure are not indicated.
- All resistors are in ohms.
  kΩ = 1000Ω, MΩ = 1000kΩ
- Indication of resistance, which does not have one for rating electrical power, is as follows.

  Pitch: 5 mm
  Rating electrical power: 1/4W

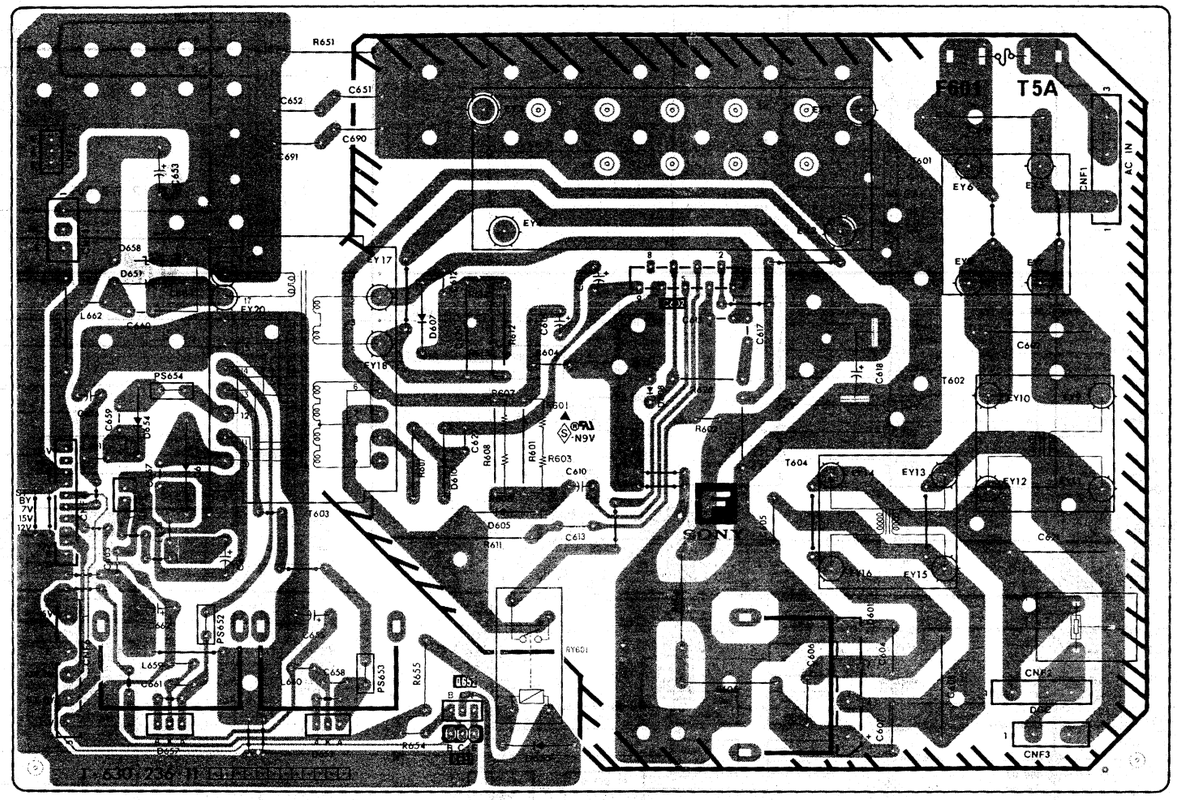
- : nonflamable resistor.
- △ : internal component.
- ▭ : panel designation or adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- Readings are taken with a color-bar signal input.
  no mark : PAL
  < > : SECAM
  ( ) : NTSC 3.58MHz
  [ ] : NTSC 4.43MHz
- Readings are taken with a 10MΩ digital multimeter.
- Voltages are dc with respect to ground unless otherwise noted.
- Voltage variations may be noted due to normal production tolerances.
- All voltages are in V.
- ✳ : Can not be measured.
- Circled numbers are waveform references.
- ——— : B + bus.
- - - - : B − bus.
- ➡ : signal path.

Reference information

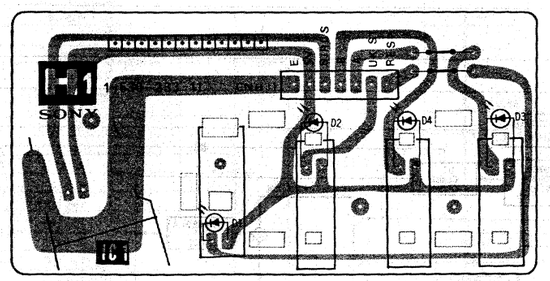
RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFLAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RS	NONFLAMMABLE METAL OXIDE
	: RB	NONFLAMMABLE CEMENT
	: RW	NONFLAMMABLE WIREWOUND
	: ✱	ADJUSTMENT RESISTOR
COIL	: LF-8L	MICRO INDUCTOR
CAPACITOR	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ALB	BIPOLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RIPPLE

F (POWER SUPPLY) **H1** (SIRCS, RECEIVER, INDICATER) **H2** (CONTROL SWITCH)

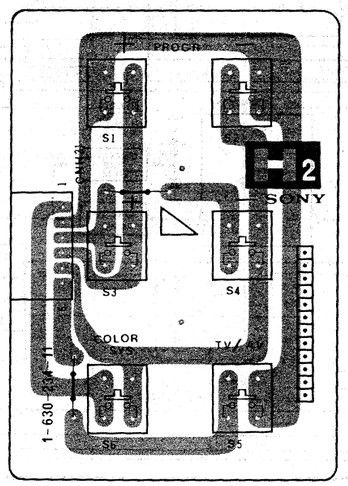
— F BOARD —



— H1 BOARD —



— H2 BOARD —



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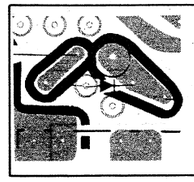
RM-684/SS-XT291

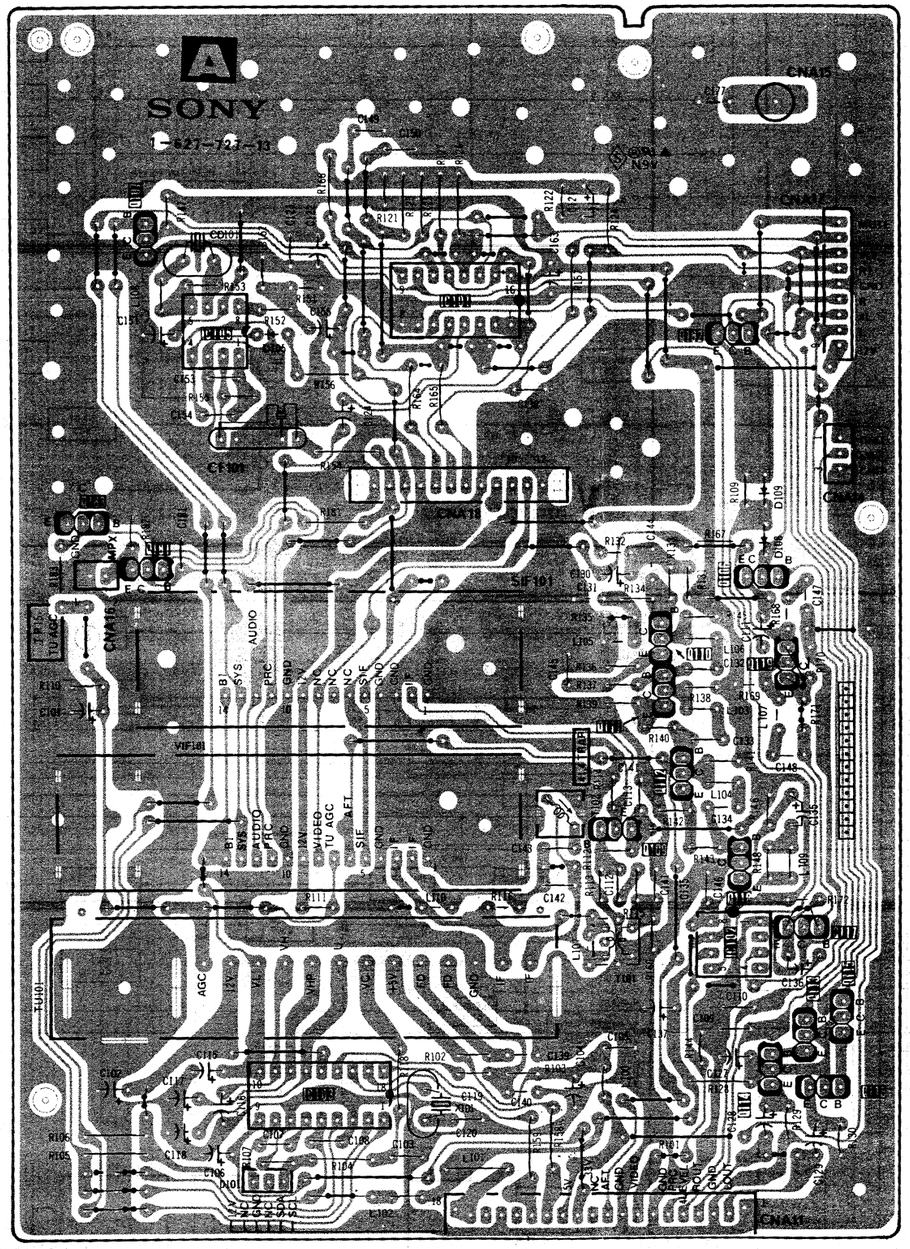
A (TUNER, VIF, SIF, SYSTEM SW, AUDIO SW)

K (TUNING CONTROL, AUDIO CONTROL, AUDIO OUT)

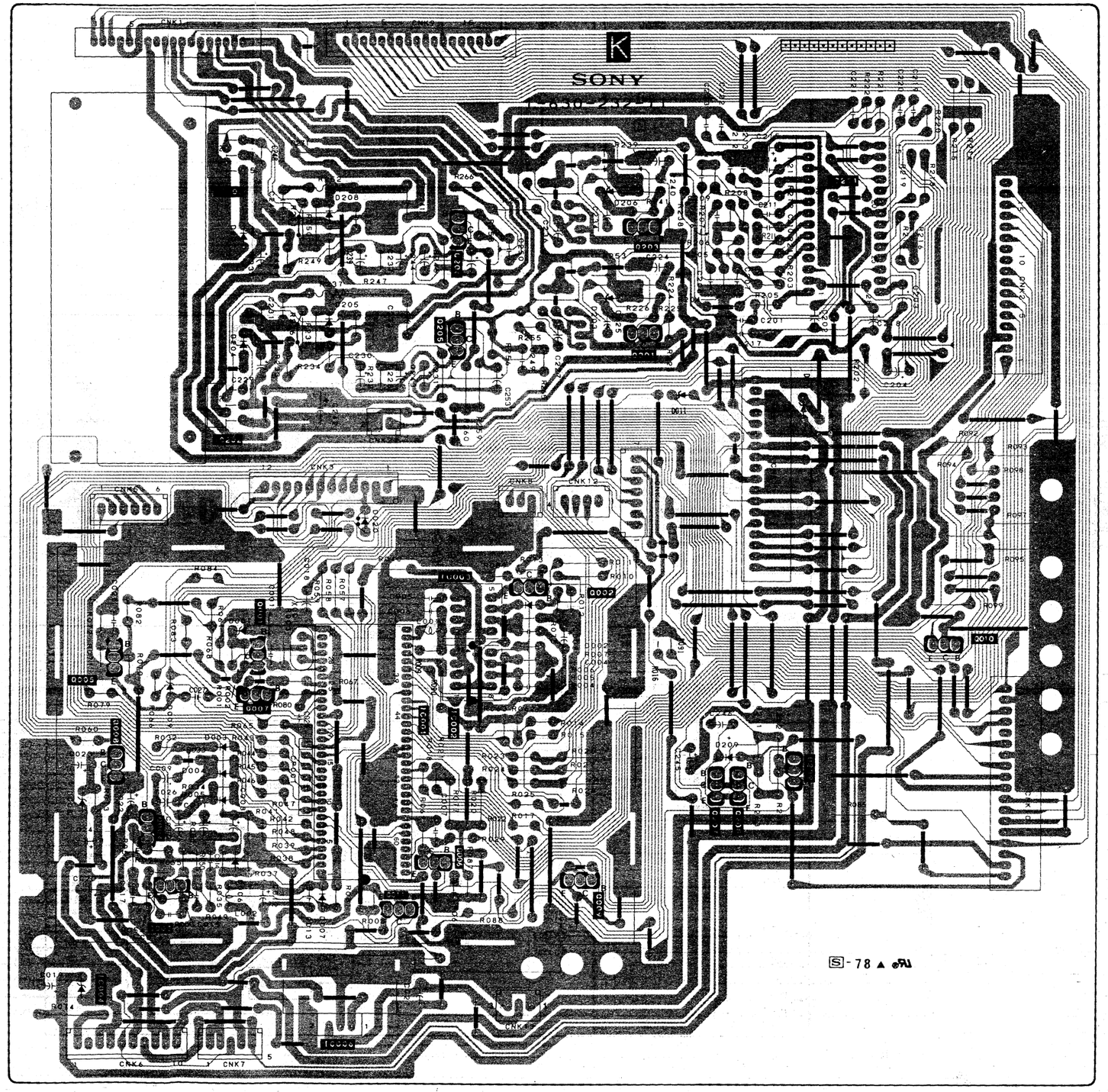


NOTE:
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

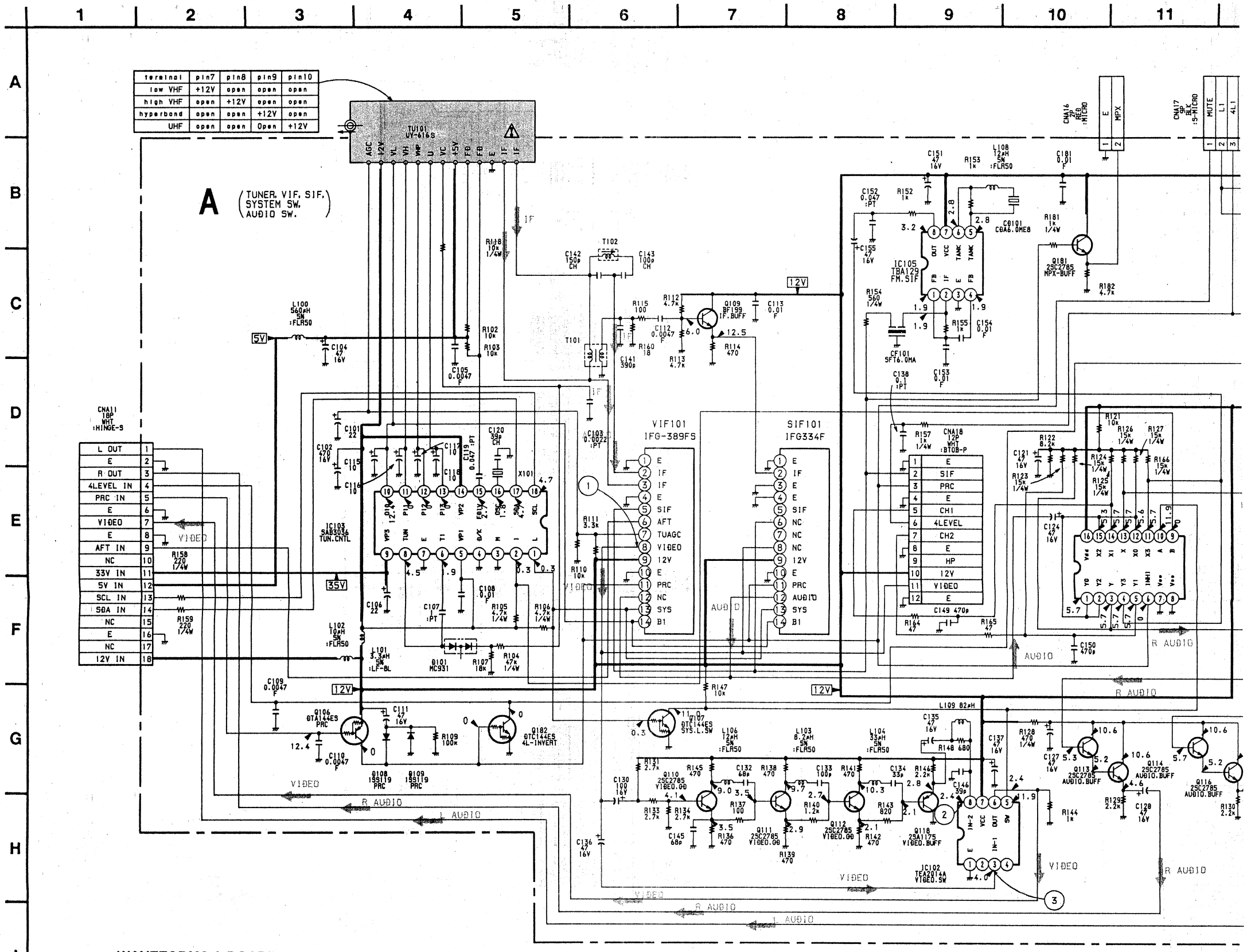
– A BOARD –



– K BOARD –



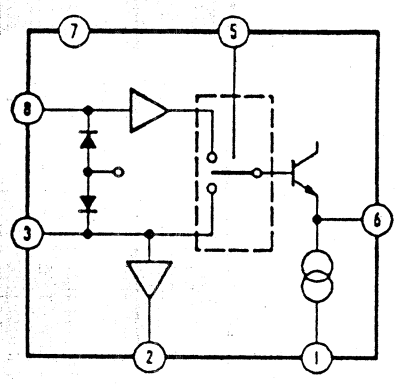
terminal	pin7	pin8	pin9	pin10
low VHF	+12V	open	open	open
high VHF	open	+12V	open	open
hyperband	open	open	+12V	open
UHF	open	open	Open	+12V



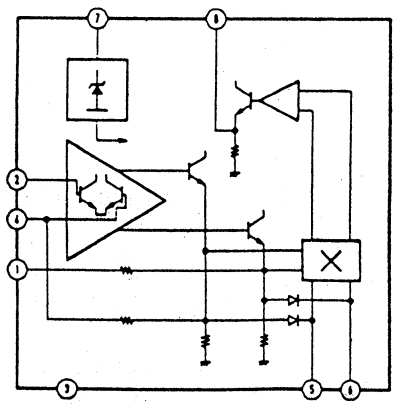
WAVEFORMS A BOARD

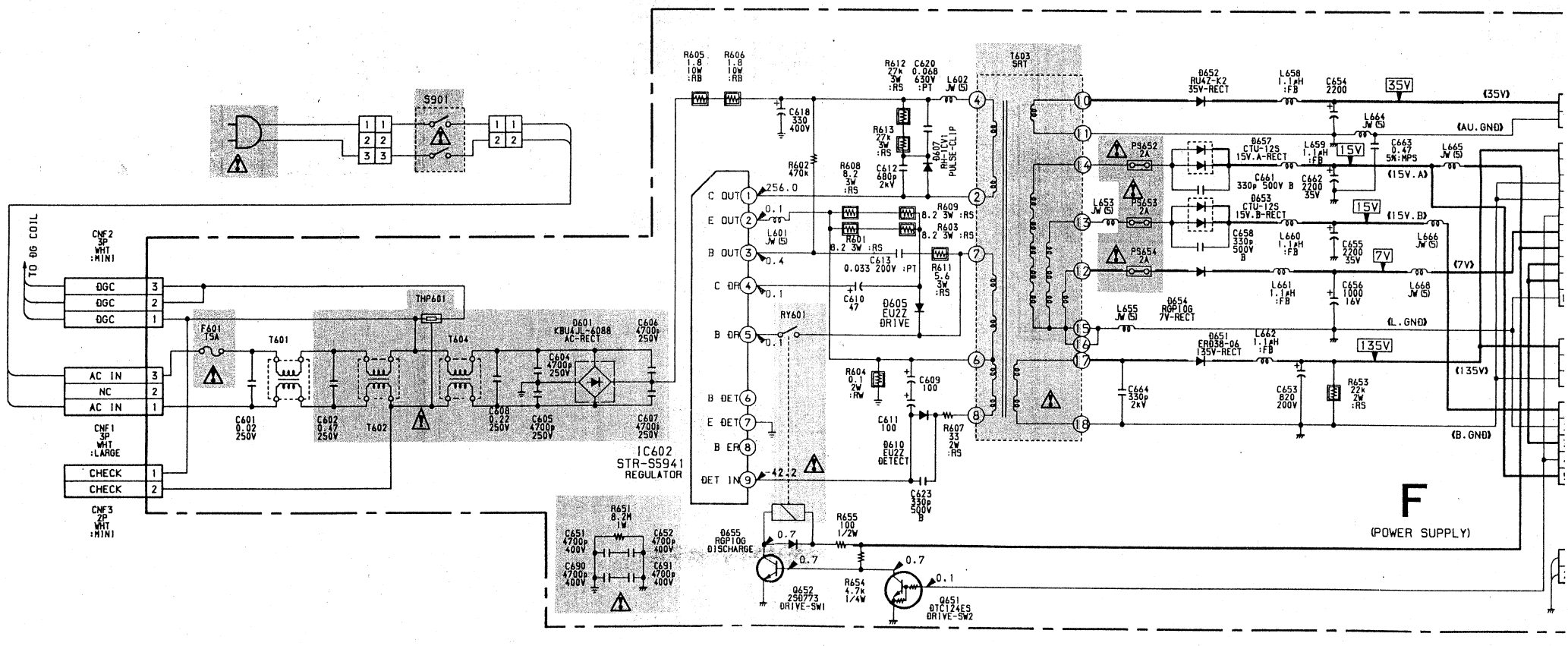
①	②	③
1 Vp-p (H)	0.3Vp-p (H)	1 Vp-p (H)

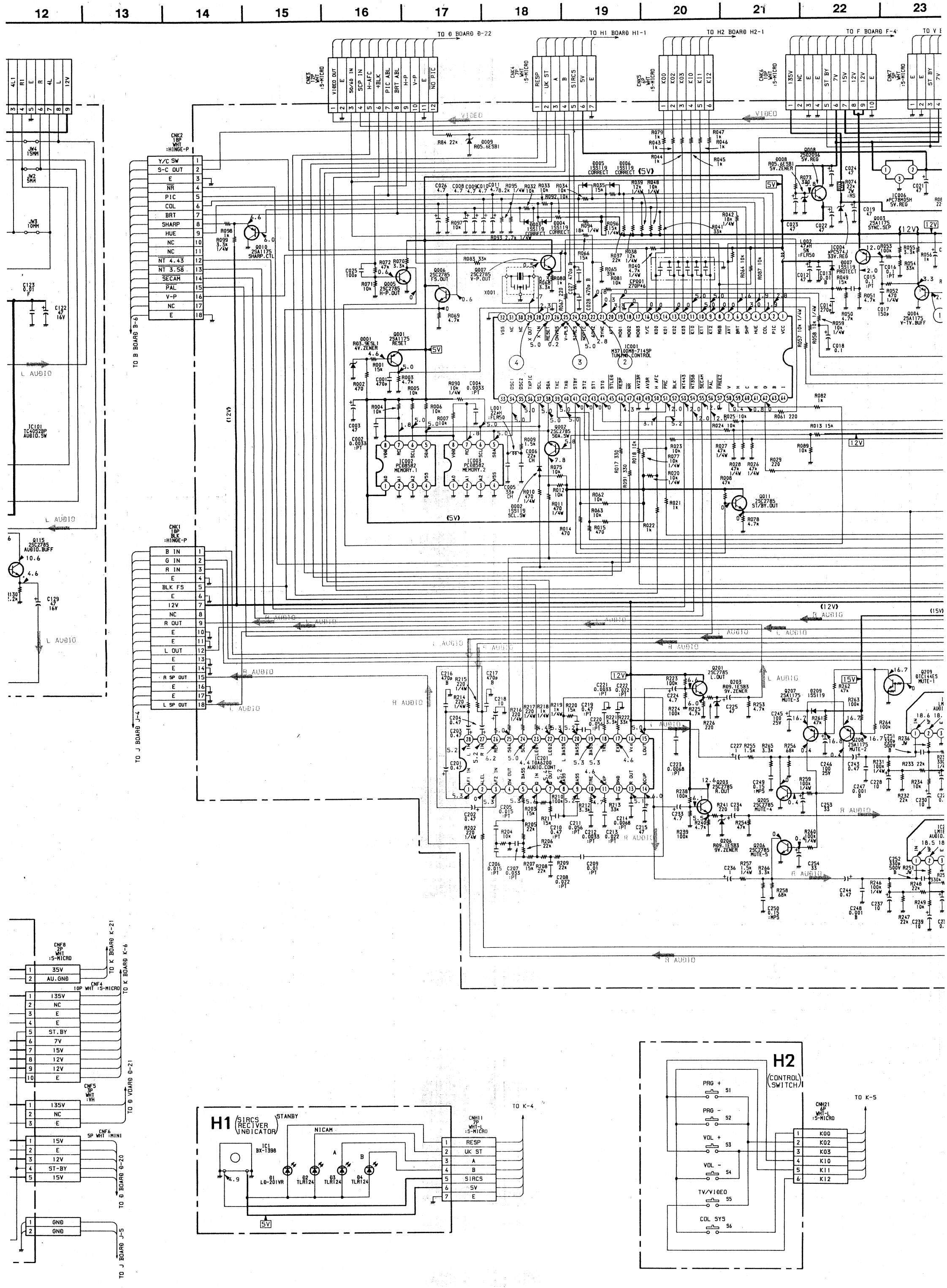
• A BOARD IC102 TEA2014A



• A BOARD IC105 TAB129






12
13
14
15
16
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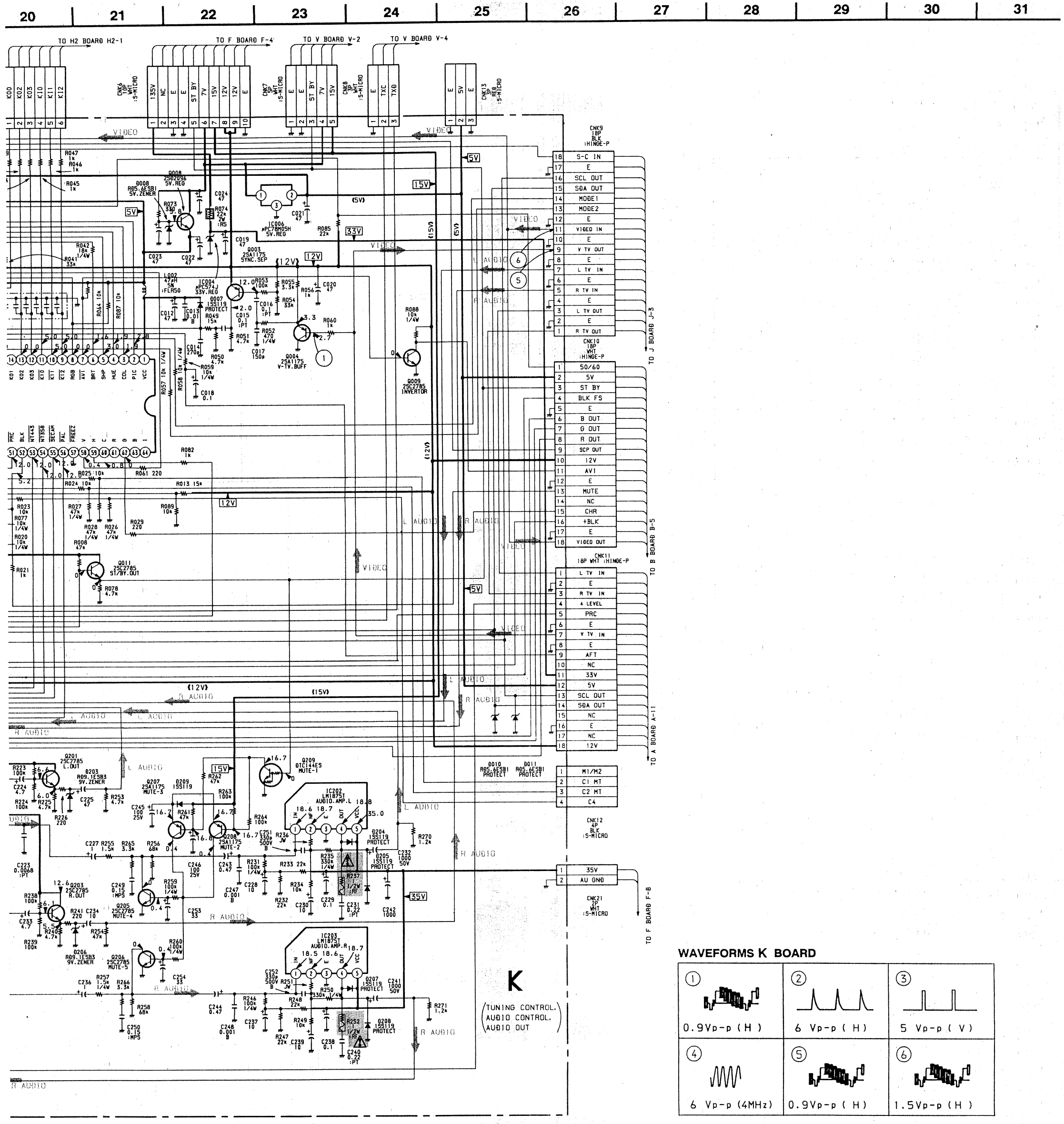
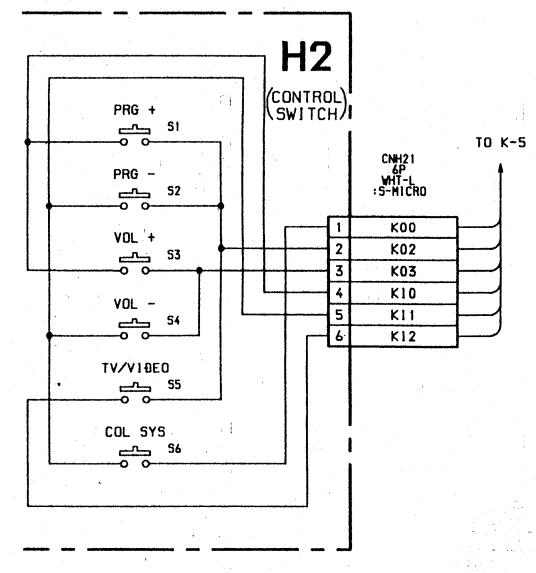
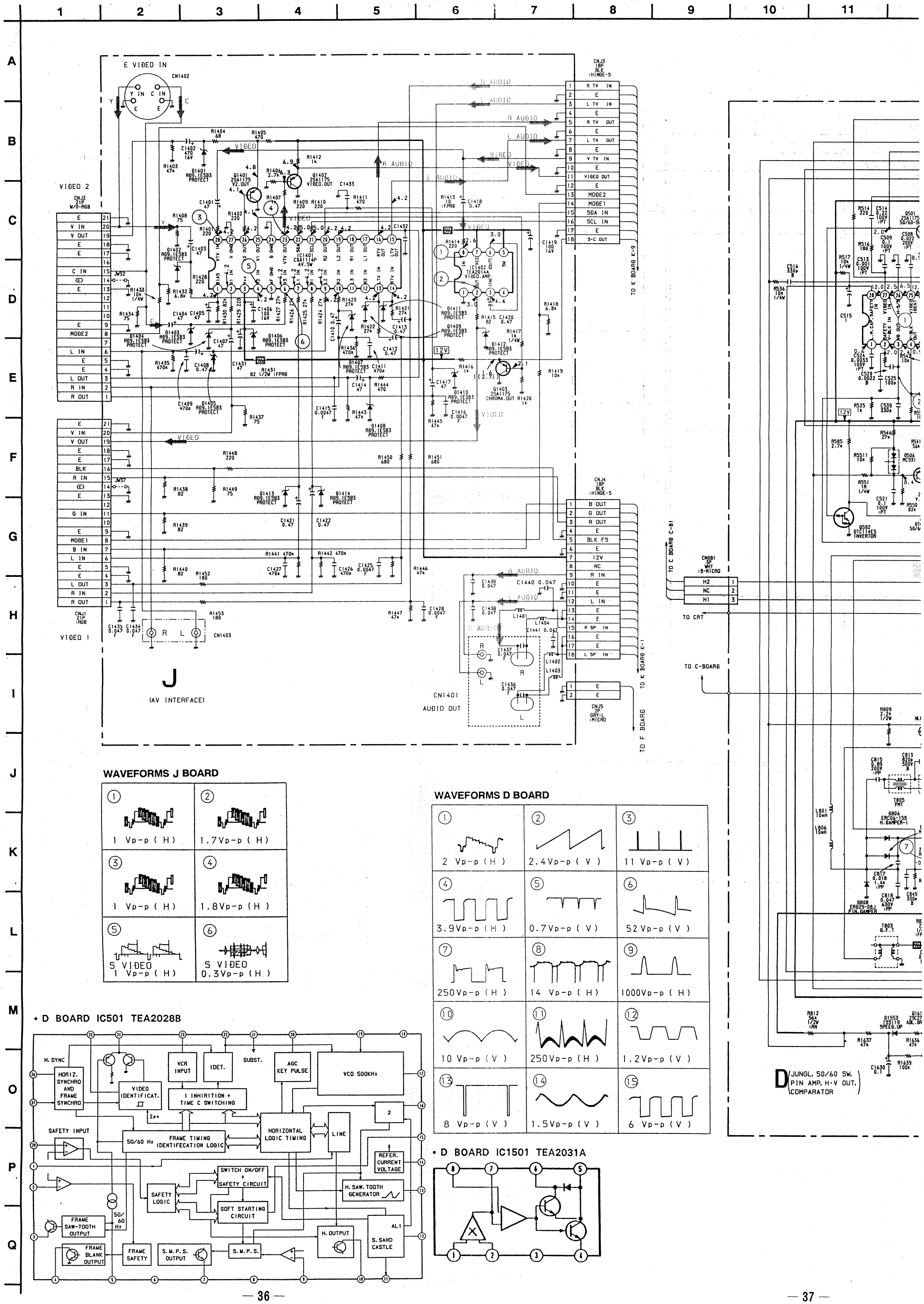
19
20
21
22
23
TO Θ BOARD Θ-22
TO H1 BOARD H1-1
TO H2 BOARD H2-1
TO F BOARD F-4
CNK3 12P WHT :S-MICRO
CNK4 7P WHT :S-MICRO
CNK5 6P WHT :S-MICRO
CNK6 10P WHT :S-MICRO
CNK7 5P WHT :S-MICRO
CNK2 18P WHT :HINGE-P
CNK1 18P BLK :HINGE-P
TO B BOARD B-6
TO J BOARD J-4
IC101 TC4052BP AUDIO.SW
IC001 M37100M8-714SP TUNING CONTROL
IC003 PC08582 MEMORY.2
IC201 TOA6200 AUDIO.CONT
IC1006 μPC78M05H 5V.REG
IC1004 μPC574J 33V.REG
CNF8 2P WHT :S-MICRO
CNF4 10P WHT :S-MICRO
CNF5 3P WHT :VH
CNF6 5P WHT :MINI
TO K BOARD K-2
TO K BOARD K-6
TO Θ BOARD Θ-21
TO Θ BOARD Θ-20
TO J BOARD J-5
H1 (SIRCS RECIVER INDICATOR)
STANBY
NICAM
IC1 BX-1398
D1 LD-201VR
D2 TLR124
D3 TLR124
D4 TLR124
CNH11 7P WHT-L :S-MICRO
TO K-4
H2 (CONTROL SWITCH)
PRG +
PRG -
VOL +
VOL -
TV/VIDEO
COL SYS
CNH21 6P WHT-L :S-MICRO
TO K-5



WAVEFORMS K BOARD

① 0.9Vp-p (H)	② 6 Vp-p (H)	③ 5 Vp-p (V)
④ 6 Vp-p (4MHz)	⑤ 0.9Vp-p (H)	⑥ 1.5Vp-p (H)





WAVEFORMS J BOARD

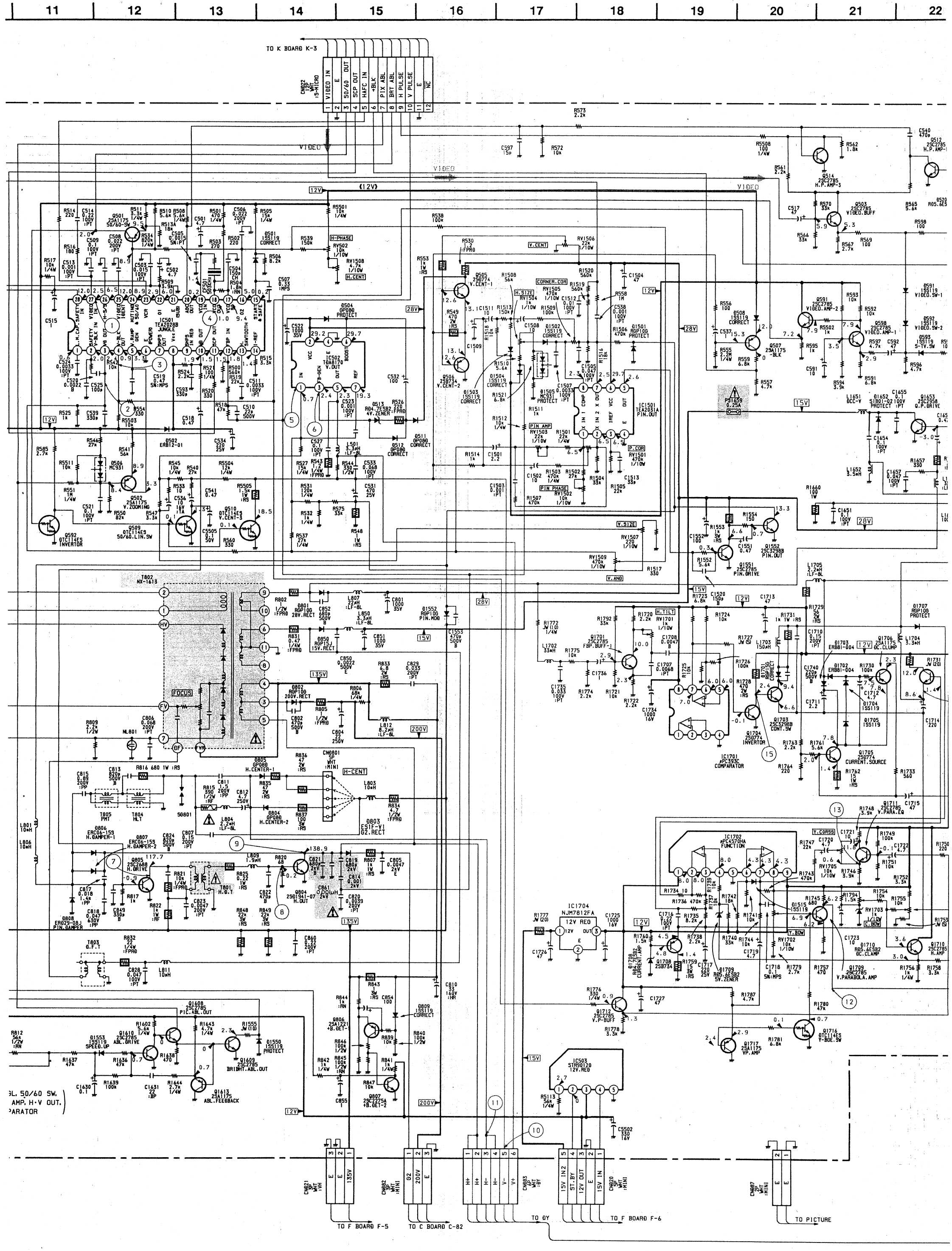
① 1 Vp-p (H)	② 1.7Vp-p (H)
③ 1 Vp-p (H)	④ 1.8Vp-p (H)
⑤ S VIDEO 1 Vp-p (H)	⑥ S VIDEO 0.3Vp-p (H)

WAVEFORMS D BOARD

① 2 Vp-p (H)	② 2.4Vp-p (V)	③ 11 Vp-p (V)
④ 3.9Vp-p (H)	⑤ 0.7Vp-p (V)	⑥ 52 Vp-p (V)
⑦ 250Vp-p (H)	⑧ 14 Vp-p (H)	⑨ 1000Vp-p (H)
⑩ 10 Vp-p (V)	⑪ 250Vp-p (H)	⑫ 1.2Vp-p (V)
⑬ 8 Vp-p (V)	⑭ 1.5Vp-p (V)	⑮ 6 Vp-p (V)

• D BOARD IC501 TEA2028B

• D BOARD IC1501 TEA2031A


11
12
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14
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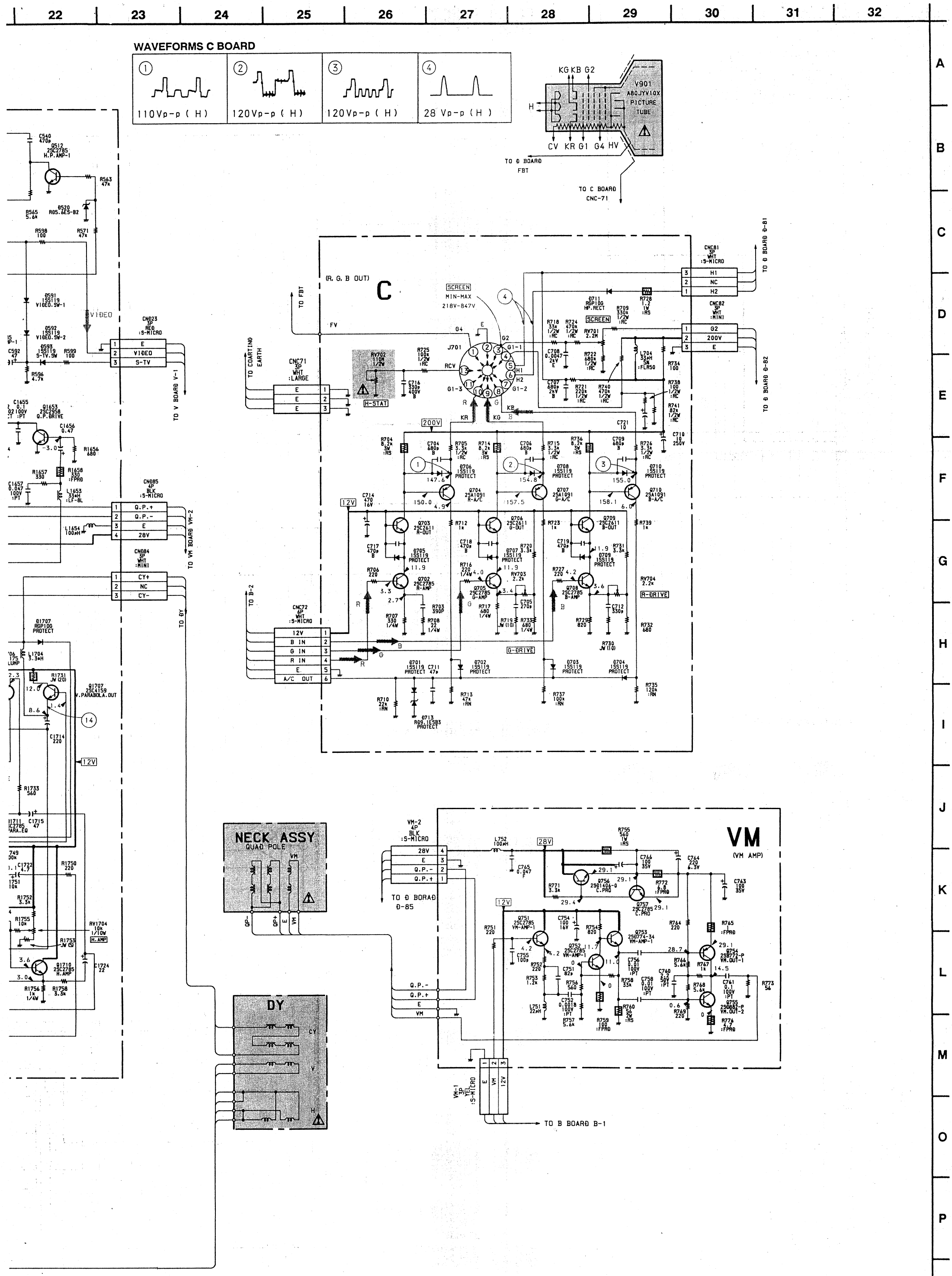
21
22
TO K BOARD K-3
CN022 12P WHT :S-MICRO
VIDEO IN
E
SD/60 OUT
SCP OUT
HAFC IN
+BLK
PIX ABL
BRT ABL
H PULSE
V PULSE
E
NC
VIDEO
(12V)
12V
28V
15V
135V
200V
IC501 TEA2028B JUNGLE
IC502 T0A8170 V.OUT
IC1501 TEA2031A PIN.OUT
IC1502 μPC4570HA FUNCTION
IC1504 NJM7812FA 12V REG
IC503 STR90120 12V.REG
IC1701 μPC393C COMPARATOR
T802 NX-1613
H-PHASE
H.CENT
V.CENT
CORNER.COR
H.SIZE
PIN AMP
PIN PHASE
P.COR
V.SIZE
V.ANG
H.TILT
FOCUS
H-CENT
Y.CORRS
Y.BOW
C.BOW
CN821 3P WHT :HI
CN882 3P WHT :MINI
CN883 6P WHT :BY
CN820 5P WHT :MINI
CN887 2P WHT :MINI
TO F BOARD F-5
TO C BOARD C-82
TO BY
TO F BOARD F-6
TO PICTURE


WAVEFORMS C BOARD
110Vp-p (H)
120Vp-p (H)
120Vp-p (H)
28 Vp-p (H)
V901
A80JYV10X
PICTURE TUBE
KG KB G2
CV KR G1 G4 HV
TO D BOARD FBT
TO C BOARD CNC-71
C
(R, G, B OUT)
TO FBT
TO COARTING EARTH
CNC71 3P WHT :LARGE
H-STAT
SCREEN
MIN-MAX 218V-847V
J701
CNC72 6P WHT :S-MICRO
12V
B IN
G IN
R IN
E.
A/C OUT
TO B-2
G-DRIVE
R-DRIVE
CNC81 3P WHT :S-MICRO
H1
NC
H2
TO D BOARD D-81
CNC82 3P WHT :MINI
G2
200V
E
TO D BOARD D-82
CND23 3P RED :S-MICRO
VIDEO
S-TV
TO V BOARD V-1
CND85 4P BLK :S-MICRO
Q.P.+
Q.P.-
28V
TO VM BOARD VM-2
CND84 3P WHT :MINI
CY+
NC
CY-
TO DY
NECK ASSY
QUAD POLE
VM
DY
CY
V
H
VM-2 4P BLK :S-MICRO
TO D BORAD D-85
VM
(VM AMP)
VM-1 3P YEL :S-MICRO
TO B BOARD B-1

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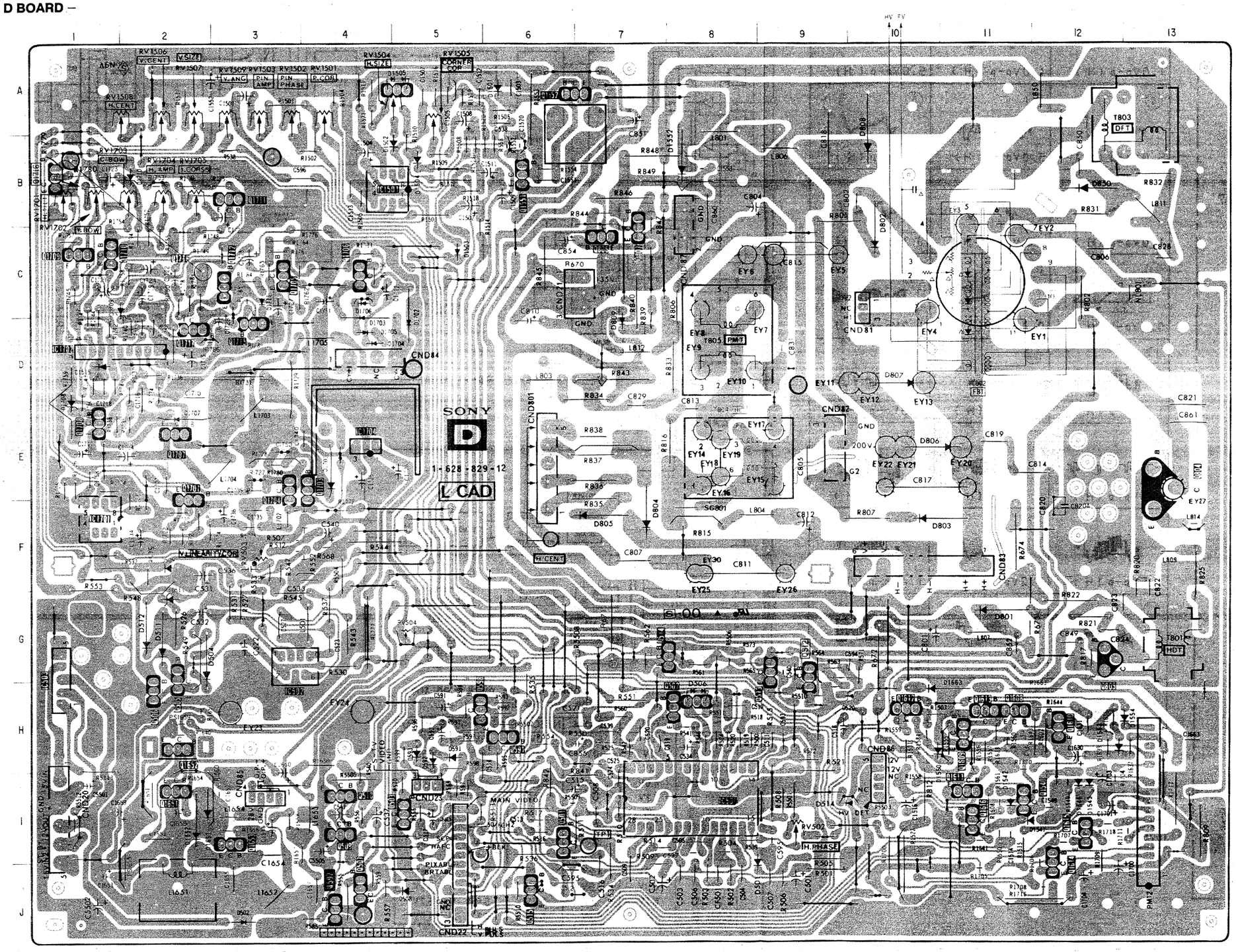
D (JUNGL, 50/60 SW, PIN AMP, H.V OUT, COMPARATOR)

J (AV INTERFACE)

– D BOARD –



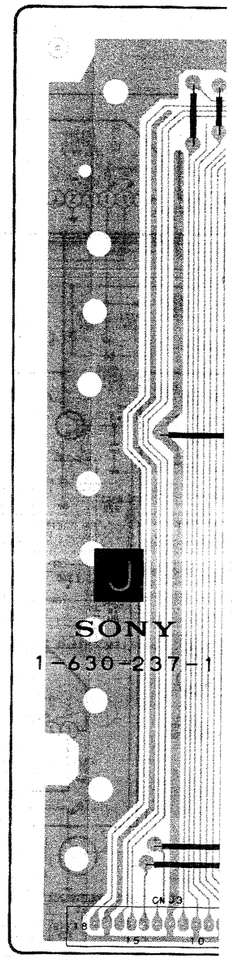
IC	
IC501	I-8
IC502	G-3
IC503	G-1
IC1501	B-4
IC1701	F-1
IC1702	D-1
IC1704	E-4

TRANSISTOR	
Q501	I-6
Q502	H-8
Q503	G-5
Q505	G-2
Q506	H-2
Q507	J-4
Q509	I-4
Q510	I-4
Q512	G-9
Q513	G-3
Q514	G-8
Q591	H-6
Q592	J-4
Q598	H-5
Q804	E-13
Q805	G-12
Q806	C-7
Q807	C-7
Q1551	B-6
Q1552	A-6
Q1608	H-11
Q1609	H-11
Q1610	H-12
Q1613	H-11
Q1653	I-3
Q1701	E-2
Q1703	E-4
Q1704	E-3
Q1705	C-3
Q1706	C-4
Q1707	E-2
Q1708	E-1
Q1709	C-1
Q1710	C-1
Q1711	B-3
Q1712	C-3
Q1716	B-1
Q1717	D-2

DIODE	
D501	I-9
D502	J-3
D504	G-2
D506	H-8
D508	J-5
D511	G-2
D512	G-2
D513	G-2
D591	H-5
D592	H-5
D593	H-5
D801	G-11
D802	C-10
D803	F-10
D804	F-7
D805	F-7
D806	E-11
D807	D-10
D808	B-10
D809	D-7
D850	B-12
D1501	A-6
D1502	B-5
D1503	B-5
D1504	B-5
D1505	A-5
D1515	D-1
D1550	H-11
D1552	B-8
D1553	H-12
D1652	I-2
D1701	E-4
D1702	D-5
D1703	D-4
D1704	D-4
D1705	D-4
D1706	C-4
D1707	E-2
D1708	D-1
D1709	C-1
D1710	B-2

VARIABLE RESISTOR	
RV502	I-9
RV1501	A-4
RV1502	A-3
RV1503	A-3
RV1504	A-5
RV1505	A-5
RV1506	A-2
RV1507	A-2
RV1508	A-2
RV1509	A-3
RV1701	B-1
RV1702	B-1
RV1703	B-2
RV1704	B-2
RV1705	B-2

– J BOARD –



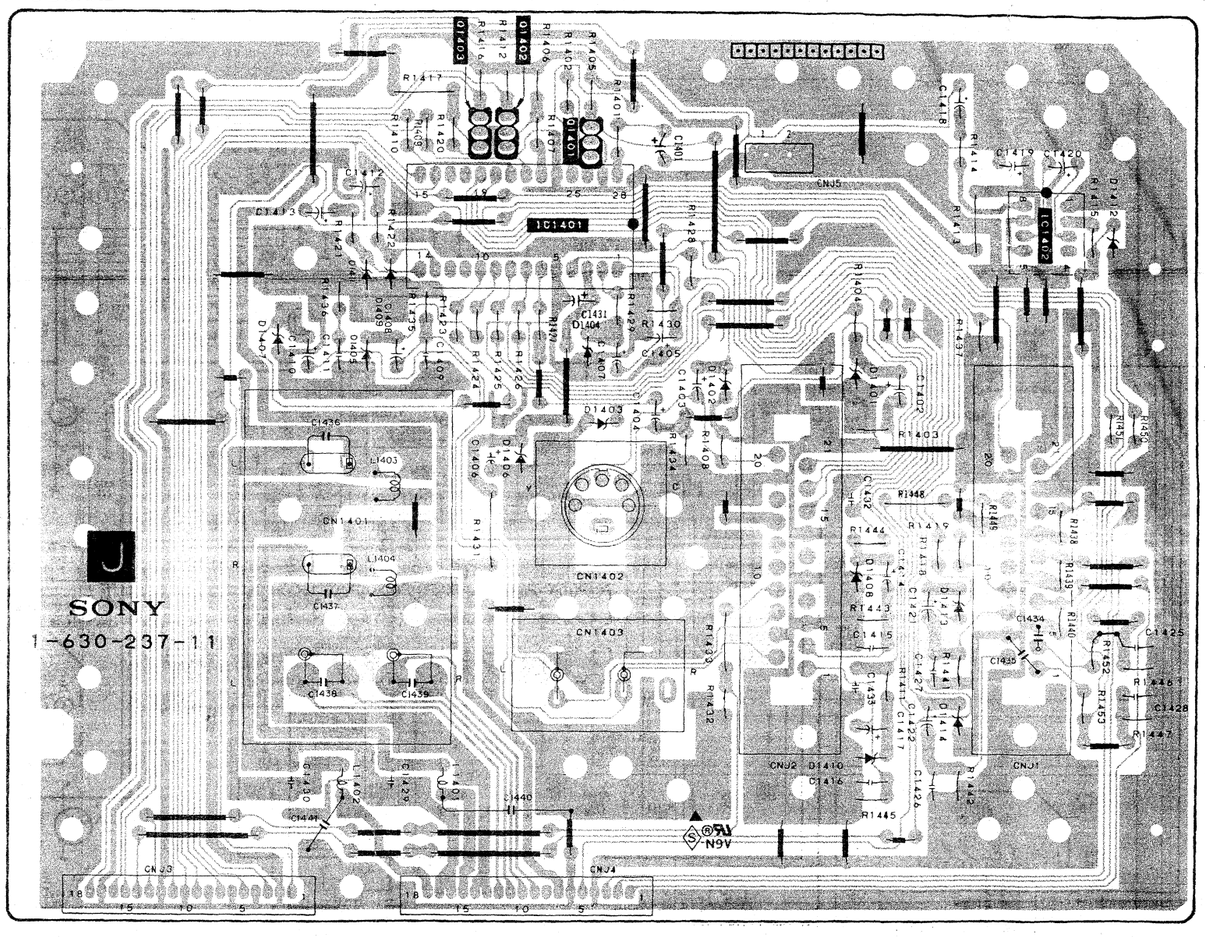
J (AV INTERFACE) **VM** (VM AMP)

C (R.G.B OUT)

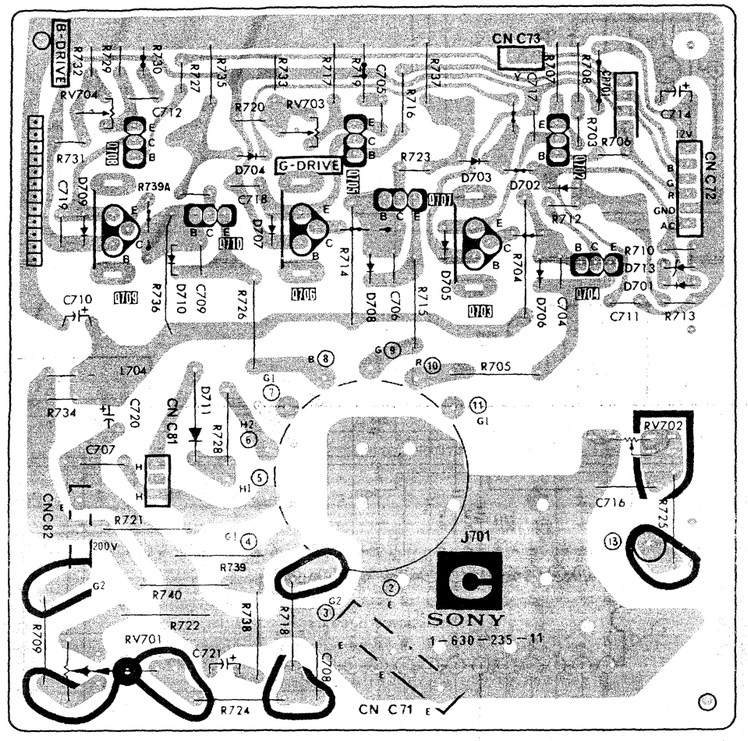
	D511	G-2
	D512	G-2
	D513	G-2
	D591	H-5
	D592	H-5
	D593	H-5
	D801	G-11
	D802	C-10
	D803	F-10
	D804	F-7
	D805	F-7
	D806	E-11
	D807	D-10
	D808	B-10
	D809	D-7
	D850	B-12
	D1501	A-6
	D1502	B-5
	D1503	B-5
	D1504	B-5
	D1505	A-5
	D1515	D-1
	D1550	H-11
	D1552	B-8
3	D1553	H-12
2	D1652	I-2
	D1701	E-4
	D1702	D-5
	D1703	D-4
	D1704	D-4
1	D1705	D-4
1	D1706	C-4
2	D1707	E-2
1	D1708	D-1
	D1709	C-1
	D1710	B-2

VARIABLE RESISTOR	
RV502	I-9
RV1501	A-4
RV1502	A-3
RV1503	A-3
RV1504	A-5
RV1505	A-5
RV1506	A-2
RV1507	A-2
RV1508	A-2
RV1509	A-3
RV1701	B-1
RV1702	B-1
RV1703	B-2
RV1704	B-2
RV1705	B-2

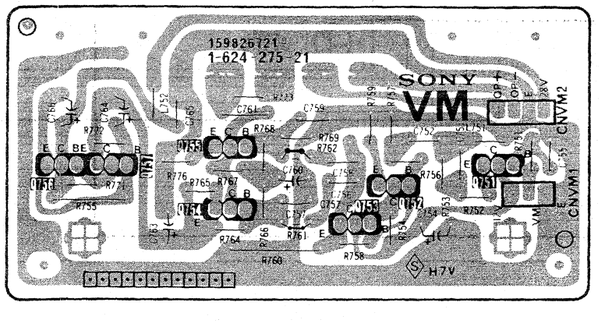
– J BOARD –



– C BOARD –



– VM BOARD –



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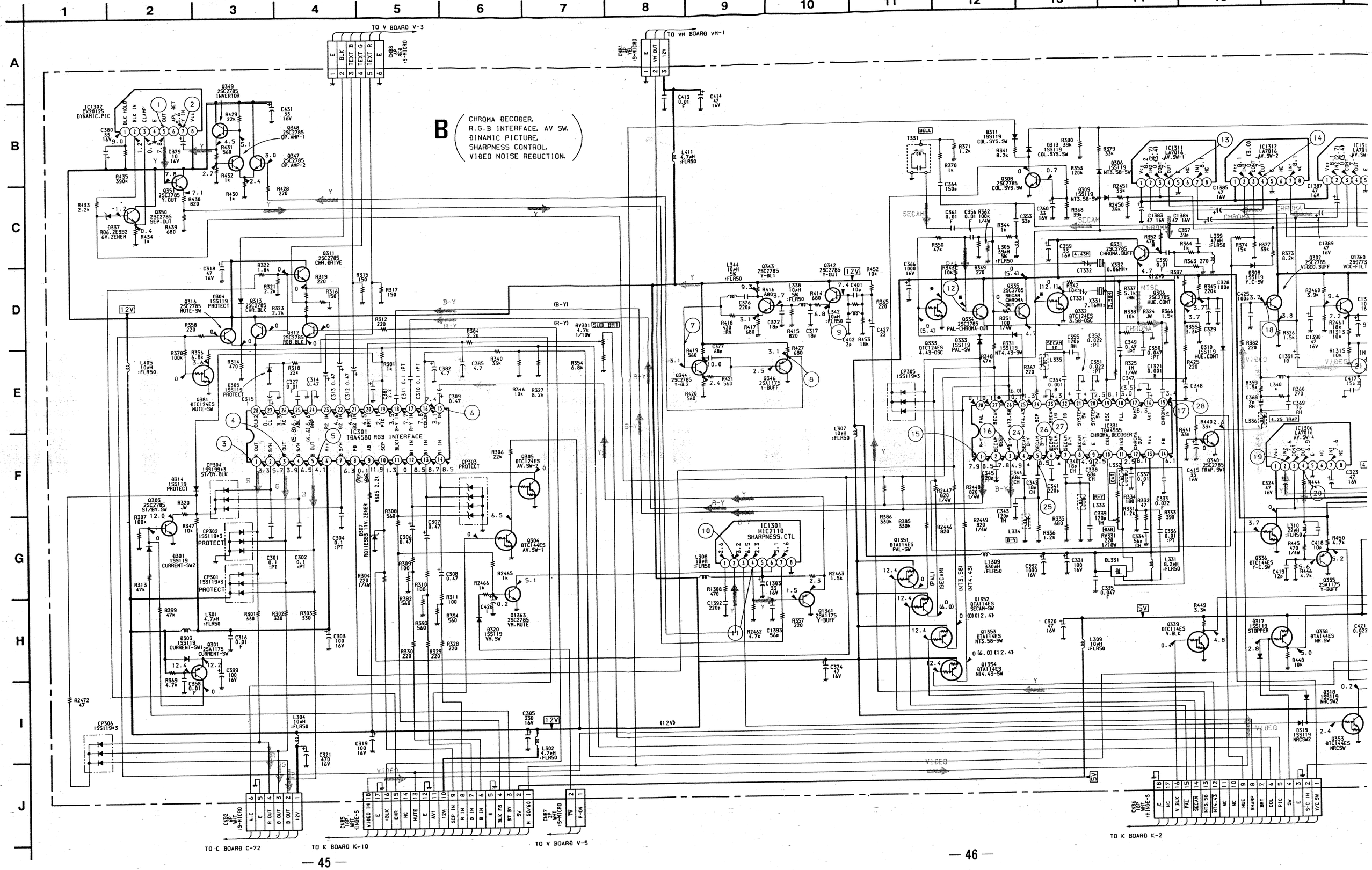
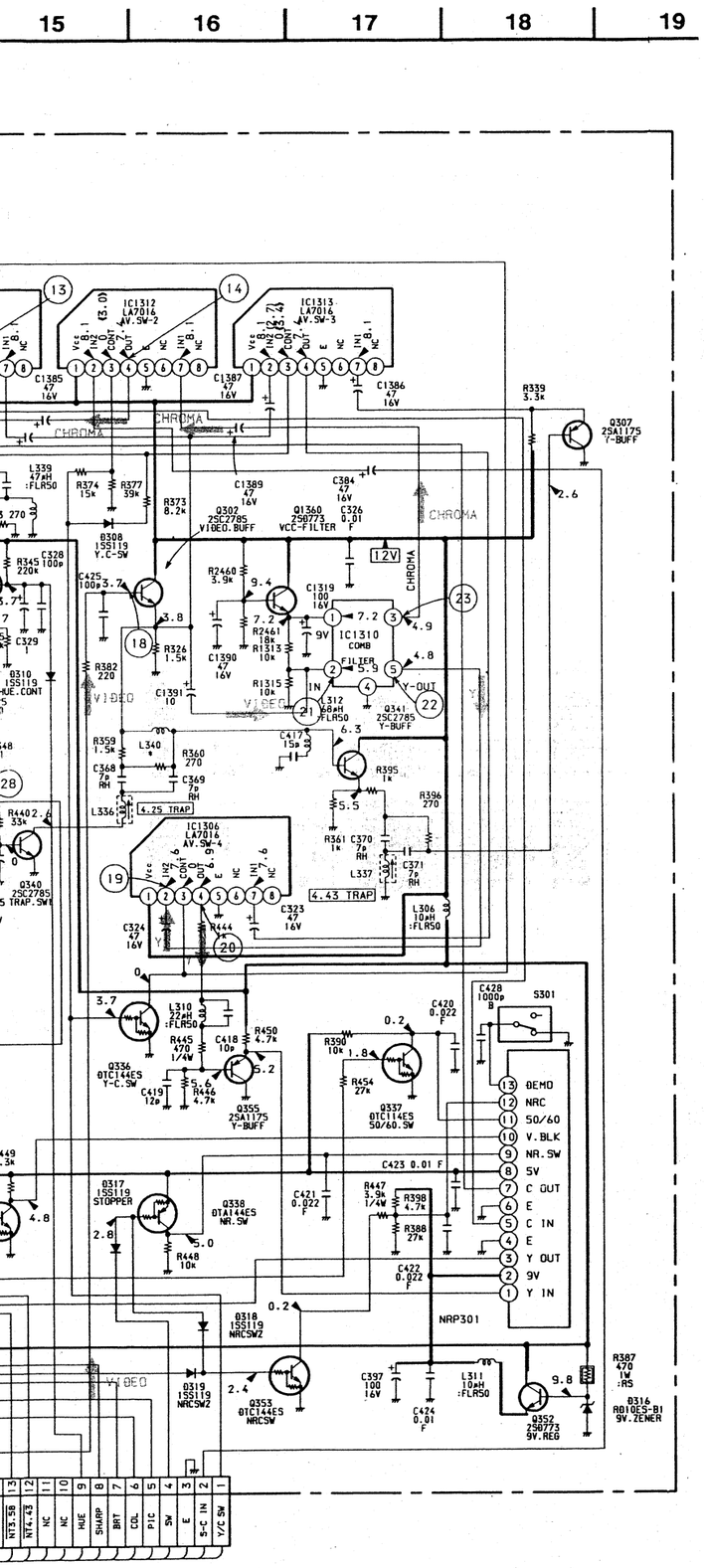
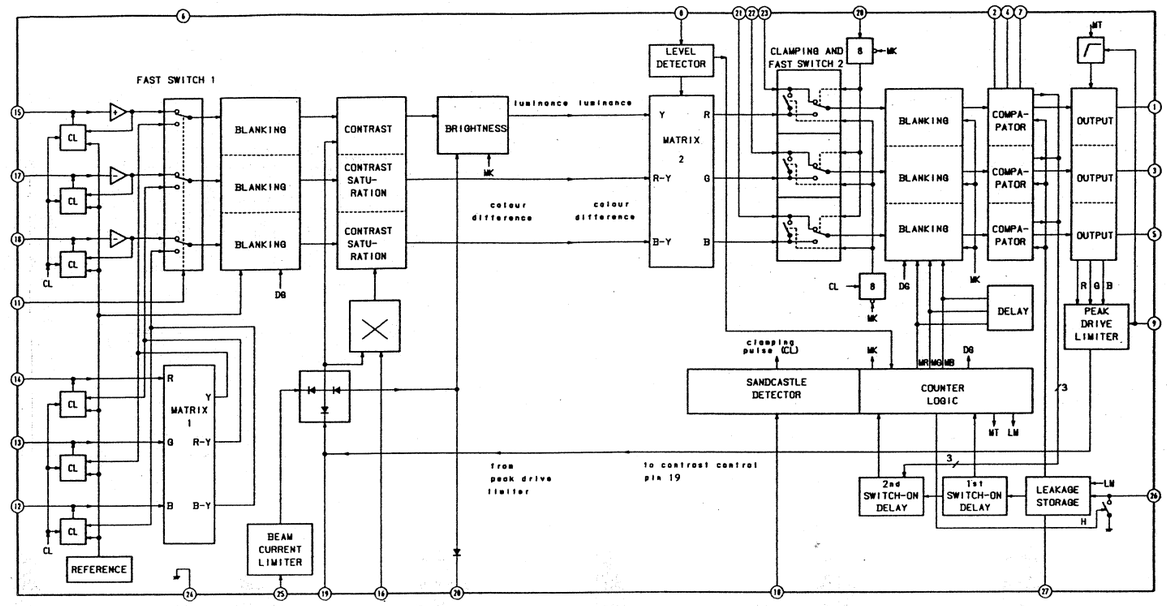




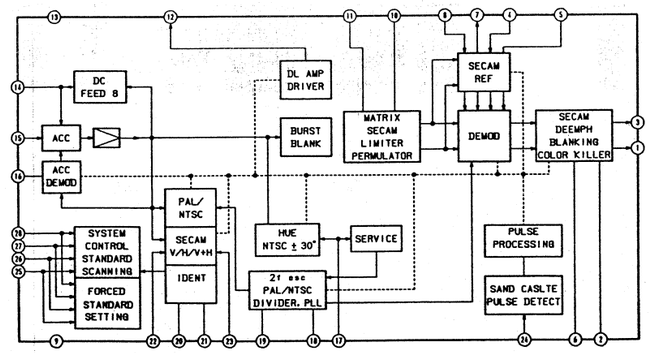
WAVEFORMS B BOARD

① 1.0Vp-p (H)	② 1.0Vp-p (H)	③ 5.0Vp-p (H)
④ 5.0Vp-p (H)	⑤ 5.0Vp-p (H)	⑥ 0.4Vp-p (H)
⑦ 1.0Vp-p (H)	⑧ 1.0 Vp-p (H)	⑨ 0.2Vp-p (H)
⑩ 0.5Vp-p (H)	⑪ 0.4Vp-p (H)	⑫ 1.2Vp-p (H)
⑬ 1.5Vp-p (H)	⑭ 1.4Vp-p (H)	⑮ 0.9Vp-p (H)
⑯ 1.3Vp-p (H)	⑰ 0.2Vp-p (H)	⑱ 1.4Vp-p (H)
⑲ 1.5Vp-p (H)	⑳ 1.2Vp-p (H)	㉑ 1.4Vp-p (H)
㉒ 1.4Vp-p (H)	㉓ 1.4Vp-p (H)	㉔ SECAM 0.4Vp-p (H)
㉕ SECAM 1.0Vp-p (H)	㉖ SECAM 1.5 Vp-p (H)	㉗ SECAM 1.0Vp-p (H)
㉘ SECAM 0.32Vp-p (H)		

• B BOARD IC301 TDA4580



◦ B BOARD IC331 TDA4555

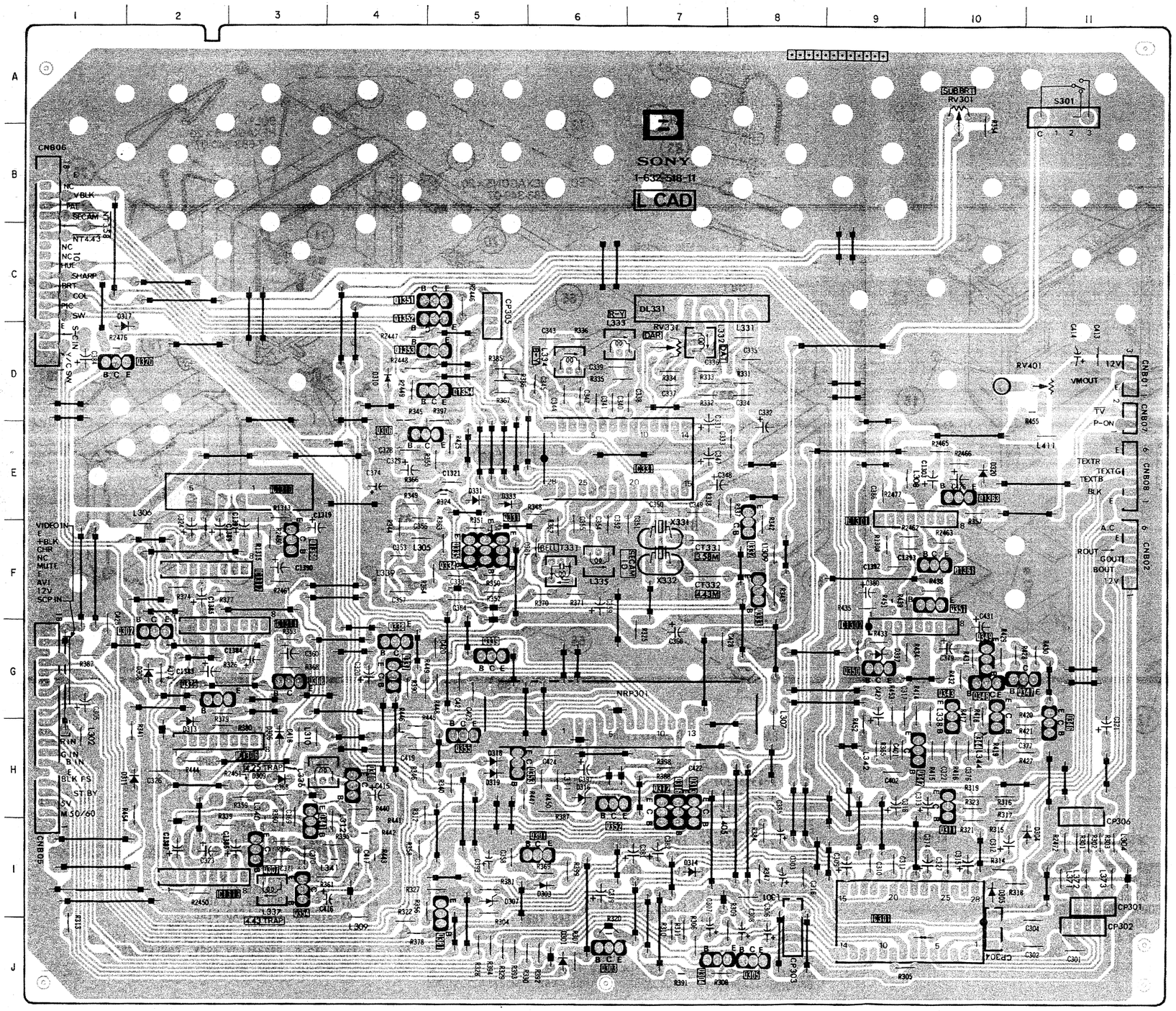


As to the voltage volue shown by the mark ※ on the Schematic Diagram, see the another list.

	PAL	SECAM	NTSC3.58	NTSC4.43	S VIDEO
Q331 (B)	0V	5.4V	0V	0V	5.3V
Q332 (B)	0V	0V	5.9V	0V	5.9V
Q333 (C)	5V	12.4V	12.3V	0V	12.4V
Q334 (B)	4.6V	0V	0V	4.9V	0V
Q1351 (C)	5.7V	0V	0V	0V	0V
IC1311 ③	0V	0V	2.7V	0V	3.4V
IC1312 ③	0V	0V	0V	0V	3V
IC1313 ③	0V	0V	2.7V	0V	3.4V
IC331 ⑤	6.4V	4.2V	6V	5.7V	5.7V
IC331 ⑦	6.3V	4.2V	5.8V	5.4V	5.4V
IC331 ⑳	5.8V	5.8V	7.6V	7.7V	3.4V
IC331 ㉑	8.1V	7V	5.7V	5.8V	5.7V
IC331 ㉖	−0.1V	0.1V	5.9V	0.1V	5.9V

B (R.G.B INTERFACE, AV SW, CHROMA DECORDER, SHARPNESS CONTROL)

– B BOARD –

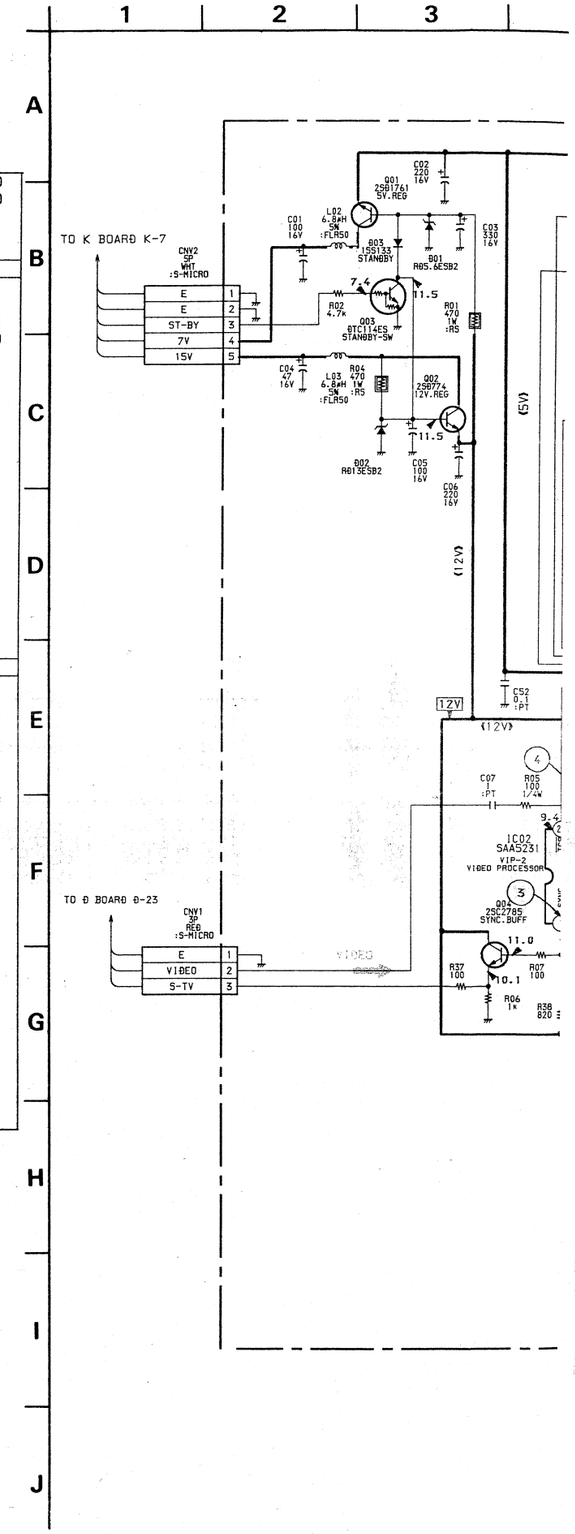


IC	
IC301	I-9
331	E-6
1301	E-9
1302	G-9
1306	H-3
1310	E-3
1311	G-3
1312	F-2
1313	I-2

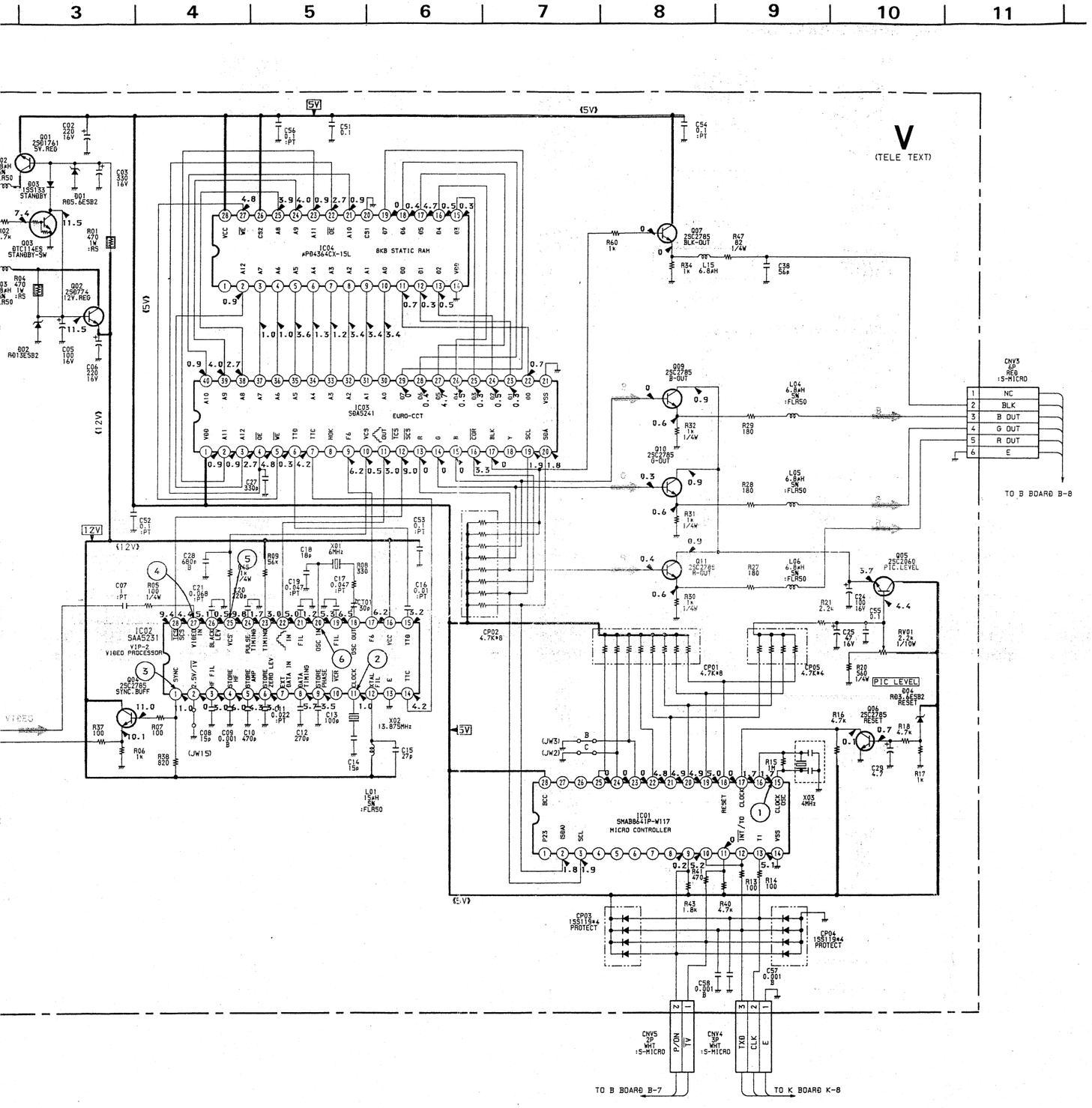
TRANSISTOR	
Q301	I-6
302	G-2
303	J-6
304	J-7
305	J-8
306	E-4
307	I-3
308	G-3
311	H-10
312	H-7
313	H-7
316	H-7
331	F-5
332	F-8
333	F-8
334	F-5
335	F-5
336	G-2
337	G-4
338	G-4
339	G-5
340	H-4
341	I-3
342	H-9
343	G-10
344	G-10
346	G-11
347	G-10
348	G-10
349	G-10
350	G-9
351	F-10
352	H-6
353	H-5
355	H-5
381	I-5
1351	C-5
1352	C-5
1353	D-5
1354	D-5
1360	F-3
Q1361	F-10
1363	E-10

DIODE	
D301	J-6
303	I-6
304	I-11
305	I-10
306	H-3
307	I-5
308	G-2
309	H-3
310	D-4
311	H-2
313	H-2
314	I-7
316	H-6
317	D-1
318	H-5
319	H-5
320	E-10
331	E-5
333	E-5
337	G-9

ADJ	
CT331	F-7
CT332	F-7
RV301	A-10
RV331	D-7

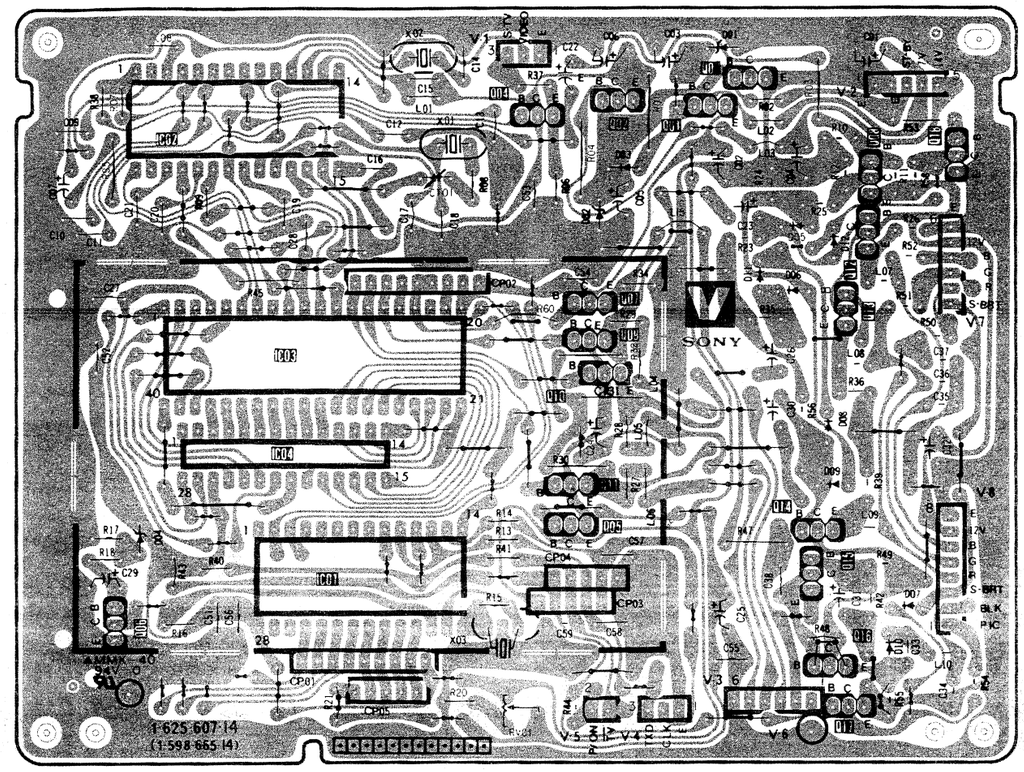


KV-D3421D
RM-684/SS-XT291



V (TELETEXT)

– V BOARD –



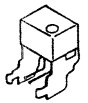
WAVEFORMS V BOARD

① 3 Vp-p (4MHz)	② 0.6Vp-p(8.75MHz)
③ 1.5Vp-p (H)	④ 1.3Vp-p (H)
⑤ 4.6Vp-p (V)	⑥ 0.36Vp-p (6MHz)

KV-D3421D RM-684/SS-XT291

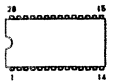
5-5. SEMICONDUCTORS

BX-1398



CX20125
LA7016

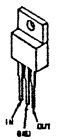
CXA1114P
MAB8641P-W136
SAA5231
TDA4555
TDA4580
TDA6200
TEA2028B
μPD4364CX-15L



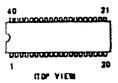
LM1875T

M37100M8-714SP

NJM7812FA
μPC78M05H



SAA5234E



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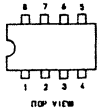
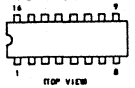
TBA129
TEA2014A
TEA2031A
μPC393C

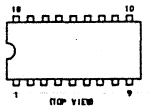


TC4052BP

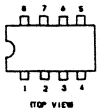


μPC574J

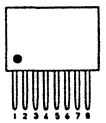
SAB3036



PCD8582



HIC2110



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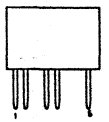
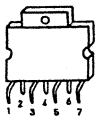


TDA8170



STR90120

BF199
2SA1091
2SC2060

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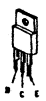
DTA144ES
DTC114ES
DTC124ES
DTC144ES

2SA1175
2SC2785

2SA1221
2SB734
2SC2958-K
2SD773
2SC4159
2SD774

2SC2275
2SC3317



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2SC2688

2SC3298B
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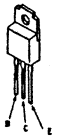
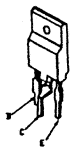


2SD1941-07



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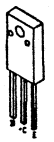
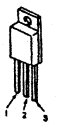
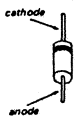


CTU-12S



ERD29-08J



EU2Z
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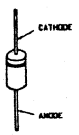
RGP01-17
RGP10G
RGP15G
RGP15J
RU4Z-K2



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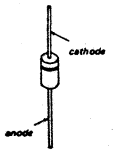
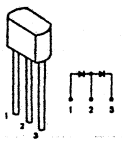
ERC06-15S
ED38-06
RH-1CV1
S1B01-02

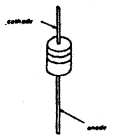


KBU4JL-6088

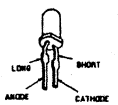
MC931



RD3.6ES-B1
RD3.9ES-L1
RD4.7ES-B2
RD5.1ES-B1
RD5.6ES-B2
RD6.2ES-B3
RD9.1ES-B3
RD11ES-B3
RD13ES-B2
1SS119



TLR124
LD201VR



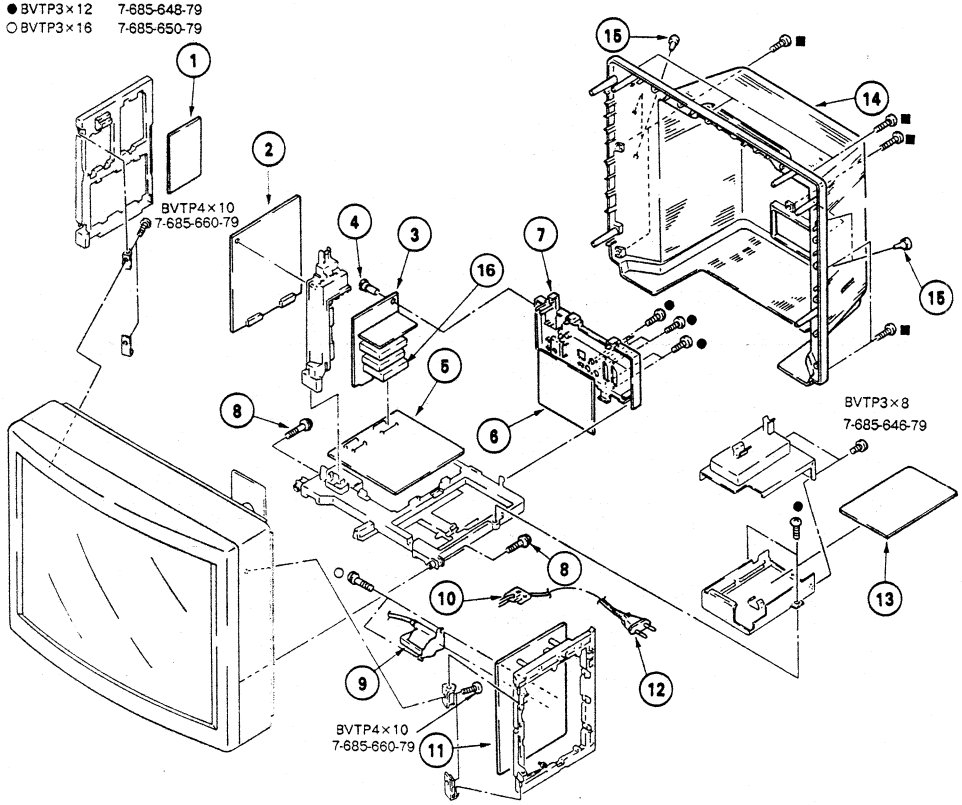
SECTION 6
EXPLODED VIEWS

NOTE:
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " ★ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

6-1. CHASSIS

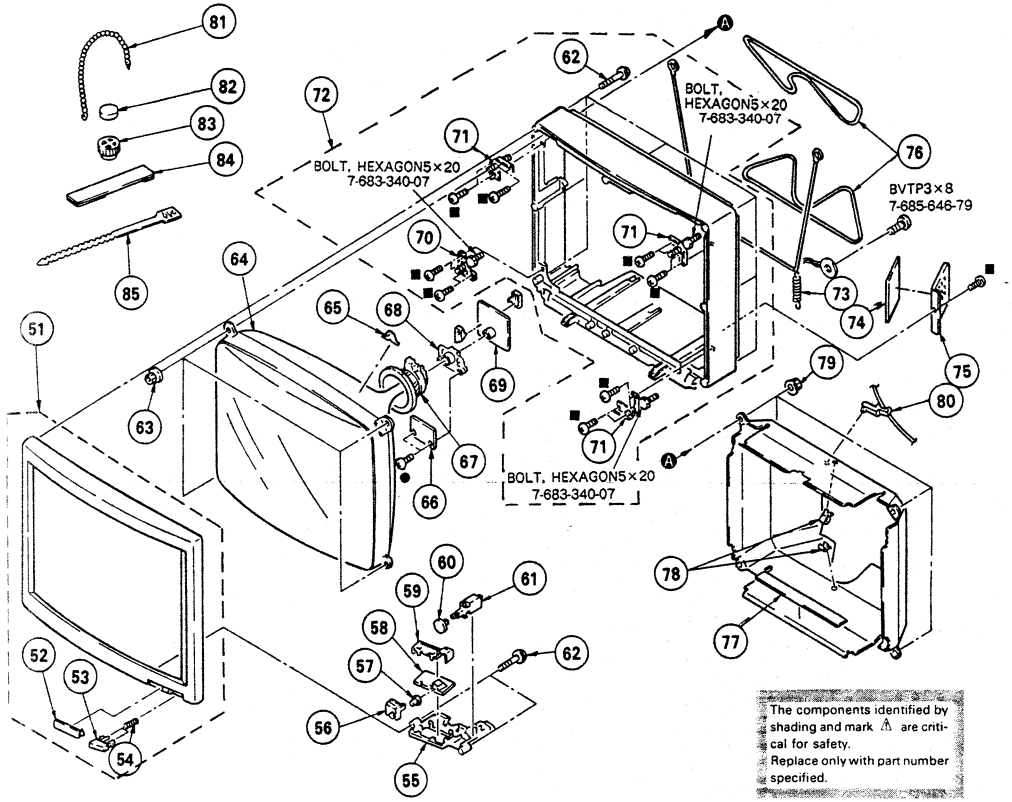
■ BVTP4×16 7-685-633-79
● BVTP3×12 7-685-648-79
○ BVTP3×16 7-685-650-79



REF.NO.	PART NO.	DESCRIPTION	REMARK
1	*A-1347-042-A	V BOARD, COMPLETE	
2	*A-1135-615-A	B BOARD, COMPLETE	
3	*A-1296-678-A	A BOARD, COMPLETE	
4	4-386-618-01	RIVET, T TYPE	
5	*A-1385-065-A	K BOARD, COMPLETE	
6	*A-1388-117-A	J BOARD, COMPLETE	
7	4-393-214-01	BRACKET, J	
8	4-319-520-11	SCREW, SPECIAL (+PW4X30)	
9	⚠1-439-418-51	TRANSFORMER ASSY FLYBACK (NX-I618)	
10	⚠4-389-778-01	HOLDER, AC CORD	
11	*A-1345-857-A	D BOARD, COMPLETE	
12	⚠1-574-745-11	CORD, POWER (WITH CONNECTOR)	
13	*A-1245-463-A	F BOARD, COMPLETE	
14	X-4392-411-2	COVER ASSY, REAR	
15	X-4374-104-1	SCREW (B) ASSY, ORNAMENTAL	
16	⚠ 1-465-059-11	TUNER, ET (UV-616S)	

6-2. PICTURE TUBE

■ BVTP4×16 7-685-633-79
● BVTP3×12 7-685-648-79



The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK
51	X-4393-204-6	BEZEL ASSY	52
52	X-4393-201-3	PLATE ASSY, ORNAMENTAL	
53	4-393-207-01	BUTTON, POWER	
54	4-329-112-00	SPRING	
55	*4-392-437-01	BRACKET, H4	
56	*4-388-955-01	BRACKET (B), LIGHT GUIDE	
57	*4-374-987-01	GUIDE, LIGHT	
58	*1-630-233-11	H1 BOARD	
59	*4-393-206-01	COVER, PROTECTION	
60	4-392-429-01	SHAFT, AC	
61	⚠1-571-877-11	SWITCH, PUSH (AC POWER)	
62	4-319-520-11	SCREW, SPECIAL (+PW4X30)	
63	4-387-204-01	NUT, SPECIAL, PICTURE TUBE	
64	⚠8-733-721-05	PICTURE TUBE (A80JYY10X)	
65	3-703-961-01	SPACER, DY	
66	*A-1342-088-A	VM BOARD, COMPLETE	
67	⚠1-451-315-11	DEFLECTION YOKE (Y34FXA)	
68	⚠ 1-452-468-11	NECK ASSY, PICTURE TUBE (NA321)	
69	*A-1330-967-A	C BOARD, COMPLETE	
70	4-383-181-01	BRACKET (B), PICTURE TUBE	
71	4-383-180-01	BRACKET (A), PICTURE TUBE	
72	X-4393-203-1	CABINET ASSY	62,70,71
73	*4-376-036-01	SPRING, TENSION	
74	*1-630-234-11	H2 BOARD	
75	X-4393-202-1	BRACKET ASSY, H2	
76	⚠1-426-433-11	COIL, DEMAGNETIZATION	
77	4-385-452-01	CLOTH	
78	*4-371-629-01	STOPPER, WIRE	
79	4-306-034-00	FLANGE NUT.(B) 5MM	
80	*4-387-216-01	HOLDER, LEAD	
81	4-308-870-00	CLIP LEAD WIRE	
82	1-452-032-00	MAGNET, DISK; 10MM ϕ	
83	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM ϕ	
84	X-4306-312-0	PERMALLOY ASSY, CONVERGENCE	
85	3-677-825-01	BAND, BINDING	

B

SECTION 7
ELECTRICAL PARTS LIST

NOTE:

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

When indicating parts by reference number, please include the board name.

CAPACITORS
- MF : μF, PF : μμF

COILS
- MMH : mH, UH : μH

RESISTORS
- All resistors are in ohms
- F : nonflammable

REF.NO.	PART NO.	DESCRIPTION				REMARK
	*A-1135-615-A	B BOARD, COMPLETE **********				
		<CAPACITOR>				
C301	1-136-165-00	MYLAR	0.1MF	10%	50V	
C302	1-136-165-00	MYLAR	0.1MF	10%	50V	
C303	1-126-101-11	ELECT	100MF	20%	16V	
C304	1-136-165-00	MYLAR	0.1MF	10%	50V	
C305	1-124-119-00	ELECT	330MF	20%	16V	
C306	1-124-902-00	ELECT	0.47MF	20%	50V	
C307	1-124-902-00	ELECT	0.47MF	20%	50V	
C308	1-124-902-00	ELECT	0.47MF	20%	50V	
C309	1-124-902-00	ELECT	0.47MF	20%	50V	
C310	1-136-165-00	MYLAR	0.1MF	10%	50V	
C311	1-136-165-00	MYLAR	0.1MF	10%	50V	
C312	1-124-902-00	ELECT	0.47MF	20%	50V	
C313	1-124-902-00	ELECT	0.47MF	20%	50V	
C314	1-124-902-00	ELECT	0.47MF	20%	50V	
C315	1-124-499-11	ELECT	1MF	20%	50V	
C316	1-101-004-00	CERAMIC	0.01MF		50V	
C317	1-102-953-00	CERAMIC	18PF	5%	50V	
C318	1-124-477-11	ELECT	47MF	20%	16V	
C319	1-126-101-11	ELECT	100MF	20%	16V	
C320	1-124-477-11	ELECT	47MF	20%	16V	
C321	1-126-103-11	ELECT	470MF	20%	16V	
C322	1-102-953-00	CERAMIC	18PF	5%	50V	
C323	1-124-477-11	ELECT	47MF	20%	16V	
C324	1-124-477-11	ELECT	47MF	20%	16V	
C326	1-101-004-00	CERAMIC	0.01MF		50V	
C327	1-101-004-00	CERAMIC	0.01MF		50V	
C328	1-102-973-00	CERAMIC	100PF	5%	50V	
C329	1-124-499-11	ELECT	1MF	20%	50V	
C330	1-101-004-00	CERAMIC	0.01MF		50V	
C331	1-126-101-11	ELECT	100MF	20%	16V	
C332	1-124-360-00	ELECT	1000MF	20%	16V	
C333	1-101-005-00	CERAMIC	0.022MF		50V	
C334	1-101-884-00	CERAMIC	56PF	5%	50V	
C335	1-101-006-00	CERAMIC	0.047MF		50V	
C336	1-136-153-00	MYLAR	0.01MF	10%	50V	
C337	1-101-004-00	CERAMIC	0.01MF		50V	
C338	1-101-888-00	CERAMIC	68PF	5%	50V	
C339	1-102-816-00	CERAMIC	120PF	5%	50V	
C340	1-102-953-00	CERAMIC	18PF	5%	50V	
C341	1-102-978-00	CERAMIC	220PF	5%	50V	
C342	1-102-953-00	CERAMIC	18PF	5%	50V	
C343	1-102-816-00	CERAMIC	120PF	5%	50V	
C344	1-101-888-00	CERAMIC	68PF	5%	50V	
C345	1-102-978-00	CERAMIC	220PF	5%	50V	
C347	1-124-499-11	ELECT	1MF	20%	50V	
C348	1-124-499-11	ELECT	1MF	20%	50V	
C349	1-136-173-00	FILM	0.47MF	5%	50V	
C350	1-136-161-00	MYLAR	0.047MF	10%	50V	
C351	1-136-157-00	MYLAR	0.022MF	10%	50V	
C352	1-136-157-00	MYLAR	0.022MF	10%	50V	
C353	1-102-963-00	CERAMIC	33PF	5%	50V	
C354	1-102-074-00	CERAMIC	0.001MF	10%	50V	
C355	1-102-816-00	CERAMIC	120PF	5%	50V	
C356	1-101-004-00	CERAMIC	0.01MF		50V	
C357	1-102-965-00	CERAMIC	39PF	5%	50V	
C358	1-101-004-00	CERAMIC	0.01MF		50V	
C359	1-124-963-11	ELECT	33MF	20%	16V	
C360	1-124-963-11	ELECT	33MF	20%	16V	
C361	1-101-004-00	CERAMIC	0.01MF		50V	
C364	1-101-361-00	CERAMIC	150PF	5%	50V	
C366	1-124-360-00	ELECT	1000MF	20%	16V	
C368	1-102-944-00	CERAMIC	7PF	0.5PF	50V	
C369	1-102-944-00	CERAMIC	7PF	0.5PF	50V	
C370	1-102-944-00	CERAMIC	7PF	0.5PF	50V	
C371	1-102-944-00	CERAMIC	7PF	0.5PF	50V	
C374	1-124-477-11	ELECT	47MF	20%	16V	
C376	1-102-978-00	CERAMIC	220PF	5%	50V	
C377	1-101-888-00	CERAMIC	68PF	5%	50V	
C379	1-126-320-11	ELECT	10MF	20%	16V	
C380	1-124-963-11	ELECT	33MF	20%	16V	
C381	1-124-925-11	ELECT	2.2MF	20%	50V	
C382	1-124-927-11	ELECT	4.7MF	20%	50V	
C384	1-124-477-11	ELECT	47MF	20%	16V	
C385	1-124-927-11	ELECT	4.7MF	20%	50V	
C386	1-136-165-00	MYLAR	0.1MF	10%	50V	
C397	1-126-101-11	ELECT	100MF	20%	16V	
C399	1-126-101-11	ELECT	100MF	20%	16V	
C401	1-102-947-00	CERAMIC	10PF	0.5PF	50V	
C402	1-102-935-00	CERAMIC	2PF	0.25PF	50V	
C413	1-101-004-00	CERAMIC	0.01MF		50V	
C414	1-124-477-11	ELECT	47MF	20%	16V	
C415	1-124-963-11	ELECT	33MF	20%	16V	
C417	1-102-949-00	CERAMIC	12PF	5%	50V	
C418	1-102-947-00	CERAMIC	10PF	0.5PF	50V	
C419	1-102-949-00	CERAMIC	12PF	5%	50V	
C420	1-101-005-00	CERAMIC	0.022MF		50V	
C421	1-101-005-00	CERAMIC	0.022MF		50V	
C422	1-101-005-00	CERAMIC	0.022MF		50V	
C423	1-101-004-00	CERAMIC	0.01MF		50V	
C424	1-101-004-00	CERAMIC	0.01MF		50V	
C425	1-102-973-00	CERAMIC	100PF	5%	50V	
C426	1-124-499-11	ELECT	1MF	20%	50V	
C427	1-126-233-11	ELECT	22MF	20%	50V	
C428	1-102-074-00	CERAMIC	0.001MF	10%	50V	
C431	1-124-963-11	ELECT	33MF	20%	16V	
C1303	1-124-963-11	ELECT	33MF	20%	16V	
C1319	1-126-101-11	ELECT	100MF	20%	16V	

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REF.NO.	PART NO.	DESCRIPTION				REMARK
C1321	1-102-074-00	CERAMIC	0.001MF	10%	50V	
C1383	1-124-477-11	ELECT	47MF	20%	16V	
C1384	1-124-477-11	ELECT	47MF	20%	16V	
C1385	1-124-477-11	ELECT	47MF	20%	16V	
C1386	1-124-477-11	ELECT	47MF	20%	16V	
C1387	1-124-477-11	ELECT	47MF	20%	16V	
C1389	1-124-477-11	ELECT	47MF	20%	16V	
C1390	1-124-477-11	ELECT	47MF	20%	16V	
C1391	1-123-875-11	ELECT	10MF	20%	50V	
C1392	1-102-978-00	CERAMIC	220PF	5%	50V	
C1393	1-101-884-00	CERAMIC	56PF	5%	50V	
		<CONNECTOR>				
CNB1	*1-564-506-11	PLUG, CONNECTOR 3P				
CNB2	*1-564-509-11	PLUG, CONNECTOR 6P				
CNB5	*1-566-659-11	CONNECTOR, HINGE (SOCKET) 18P				
CNB6	*1-566-659-11	CONNECTOR, HINGE (SOCKET) 18P				
CNB7	*1-564-505-11	PLUG, CONNECTOR 2P				
CNB8	*1-564-509-11	PLUG, CONNECTOR 6P				
		<COMPOSITION CIRCUIT BLOCK>				
CP302	1-232-096-00	COMPOSITION CIRCUIT BLOCK				
		<TRIMMER>				
CT331	1-141-181-11	CAP,TRIMMER				
CT332	1-141-181-11	CAP,TRIMMER				
		<DIODE>				
D301	8-719-911-19	DIODE 1SS119				
D303	8-719-911-19	DIODE 1SS119				
D304	8-719-911-19	DIODE 1SS119				
D305	8-719-911-19	DIODE 1SS119				
D306	8-719-911-19	DIODE 1SS119				
D307	8-719-110-23	DIODE RD11ES-B3				
D308	8-719-911-19	DIODE 1SS119				
D309	8-719-911-19	DIODE 1SS119				
D310	8-719-911-19	DIODE 1SS119				
D311	8-719-911-19	DIODE 1SS119				
D313	8-719-911-19	DIODE 1SS119				
D314	8-719-911-19	DIODE 1SS119				
D316	8-719-110-18	DIODE RD10ES-B3				
D317	8-719-911-19	DIODE 1SS119				
D318	8-719-911-19	DIODE 1SS119				
D319	8-719-911-19	DIODE 1SS119				
D320	8-719-911-19	DIODE 1SS119				
D331	8-719-911-19	DIODE 1SS119				
D333	8-719-911-19	DIODE 1SS119				
D337	8-719-109-93	DIODE RD6.2ES-B2				
		<DELAY LINE>				
DL331	1-415-122-31	DELAY LINE, 1H (PAL)				
		<IC>				
IC301	8-759-923-81	IC TDA4580				
IC331	8-759-947-20	IC TDA4555-V8				
IC1301	1-235-534-11	CONTROL MODULE, PICTURE				
IC1302	8-752-012-51	IC CX20125				
IC1306	8-759-800-81	IC LA7016				
IC1310	1-464-932-31	FILTER BLOCK, COM (CFB-3)				
IC1311	8-759-800-81	IC LA7016				
IC1312	8-759-800-81	IC LA7016				
IC1313	8-759-800-81	IC LA7016				
		<COIL>				
L301	1-410-466-41	INDUCTOR	4.7UH			
L302	1-410-466-41	INDUCTOR	4.7UH			
L304	1-410-470-11	INDUCTOR	10UH			
L305	1-408-416-00	INDUCTOR	39UH			
L306	1-410-470-11	INDUCTOR	10UH			
L307	1-410-470-11	INDUCTOR	10UH			
L308	1-410-470-11	INDUCTOR	10UH			
L309	1-410-470-11	INDUCTOR	10UH			
L310	1-408-413-00	INDUCTOR	22UH			
L311	1-410-470-11	INDUCTOR	10UH			
L312	1-408-419-00	INDUCTOR	68UH			
L331	1-408-408-00	INDUCTOR	8.2UH			
L332	1-404-539-11	COIL				
L333	1-404-554-11	COIL				
L334	1-404-554-11	COIL				
L335	1-404-554-11	COIL				
L336	1-404-495-00	COIL				
L337	1-404-495-00	COIL				
L338	1-410-470-11	INDUCTOR	10UH			
L339	1-410-478-11	INDUCTOR	47UH			
L342	1-410-470-11	INDUCTOR	10UH			
L344	1-410-470-11	INDUCTOR	10UH			
L405	1-410-470-11	INDUCTOR	10UH			
L411	1-410-466-41	INDUCTOR	4.7UH			
L1309	1-408-427-00	INDUCTOR	330UH			
		<NR PACK>				
NRP301	1-466-181-11	NR PACK (NRP-2E)				
		<TRANSISTOR>				
Q301	8-729-119-76	TRANSISTOR 2SA1175-HFE				
Q302	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q303	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q304	8-729-900-89	TRANSISTOR DTC144ES				
Q305	8-729-900-36	TRANSISTOR DTC124ES				
Q306	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q307	8-729-119-76	TRANSISTOR 2SA1175-HFE				
Q308	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q311	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q312	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q313	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q316	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q331	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q332	8-729-900-36	TRANSISTOR DTC124ES				
Q333	8-729-900-36	TRANSISTOR DTC124ES				
Q334	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q335	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q336	8-729-900-89	TRANSISTOR DTC144ES				
Q337	8-729-900-80	TRANSISTOR DTC114ES				
Q338	8-729-900-61	TRANSISTOR DTA114ES				
Q339	8-729-900-80	TRANSISTOR DTC114ES				
Q340	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q341	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q342	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q343	8-729-119-78	TRANSISTOR 2SC2785-HFE				

B

REF.NO.	PART NO.	DESCRIPTION				REMARK
Q344	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q346	8-729-119-76	TRANSISTOR 2SA1175-HFE				
Q347	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q348	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q349	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q350	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q351	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q352	8-729-177-32	TRANSISTOR 2SD773				
Q353	8-729-900-89	TRANSISTOR DTC144ES				
Q355	8-729-119-76	TRANSISTOR 2SA1175-HFE				
Q381	8-729-900-36	TRANSISTOR DTC124ES				
Q1351	8-729-900-61	TRANSISTOR DTA114ES				
Q1352	8-729-900-61	TRANSISTOR DTA114ES				
Q1353	8-729-900-61	TRANSISTOR DTA114ES				
Q1354	8-729-900-61	TRANSISTOR DTA114ES				
Q1360	8-729-177-32	TRANSISTOR 2SD773				
Q1361	8-729-119-76	TRANSISTOR 2SA1175-HFE				
Q1363	8-729-119-78	TRANSISTOR 2SC2785-HFE				
		<RESISTOR>				
R301	1-249-411-11	CARBON	330	5%	1/4W	
R302	1-249-411-11	CARBON	330	5%	1/4W	
R303	1-249-411-11	CARBON	330	5%	1/4W	
R304	1-249-409-11	CARBON	220	5%	1/4W	
R305	1-249-421-11	CARBON	2.2K	5%	1/4W	
R306	1-249-433-11	CARBON	22K	5%	1/4W	
R307	1-249-441-11	CARBON	100K	5%	1/4W	
R308	1-249-414-11	CARBON	560	5%	1/4W	
R309	1-249-405-11	CARBON	100	5%	1/4W	
R310	1-249-405-11	CARBON	100	5%	1/4W	
R311	1-249-405-11	CARBON	100	5%	1/4W	
R312	1-249-409-11	CARBON	220	5%	1/4W	
R313	1-249-437-11	CARBON	47K	5%	1/4W	
R314	1-249-413-11	CARBON	470	5%	1/4W	
R315	1-249-407-11	CARBON	150	5%	1/4W	
R316	1-249-407-11	CARBON	150	5%	1/4W	
R317	1-249-407-11	CARBON	150	5%	1/4W	
R318	1-249-433-11	CARBON	22K	5%	1/4W	
R319	1-249-409-11	CARBON	220	5%	1/4W	
R321	1-249-421-11	CARBON	2.2K	5%	1/4W	
R322	1-249-420-11	CARBON	1.8K	5%	1/4W	
R323	1-249-421-11	CARBON	2.2K	5%	1/4W	
R325	1-247-903-00	CARBON	1M	5%	1/4W	
R326	1-249-419-11	CARBON	1.5K	5%	1/4W	
R327	1-249-428-11	CARBON	8.2K	5%	1/4W	
R328	1-249-409-11	CARBON	220	5%	1/4W	
R329	1-249-409-11	CARBON	220	5%	1/4W	
R330	1-249-409-11	CARBON	220	5%	1/4W	
R331	1-249-418-11	CARBON	1.2K	5%	1/4W	
R332	1-249-401-11	CARBON	47	5%	1/4W	
R333	1-249-412-11	CARBON	390	5%	1/4W	
R334	1-249-408-11	CARBON	180	5%	1/4W	
R335	1-249-415-11	CARBON	680	5%	1/4W	
R336	1-249-418-11	CARBON	1.2K	5%	1/4W	
R337	1-214-746-00	METAL	5.1K	1%	1/4W	
R338	1-249-429-11	CARBON	10K	5%	1/4W	
R339	1-249-423-11	CARBON	3.3K	5%	1/4W	
R340	1-249-435-11	CARBON	33K	5%	1/4W	
R341	1-249-428-11	CARBON	8.2K	5%	1/4W	
R342	1-249-429-11	CARBON	10K	5%	1/4W	
R343	1-249-429-11	CARBON	10K	5%	1/4W	
R344	1-249-417-11	CARBON	1K	5%	1/4W	
R345	1-247-887-00	CARBON	220K	5%	1/4W	
R346	1-249-429-11	CARBON	10K	5%	1/4W	
R347	1-249-429-11	CARBON	10K	5%	1/4W	
R348	1-249-437-11	CARBON	47K	5%	1/4W	
R349	1-249-410-11	CARBON	270	5%	1/4W	
R350	1-249-437-11	CARBON	47K	5%	1/4W	
R351	1-247-700-11	CARBON	100	5%	1/4W	
R352	1-249-437-11	CARBON	47K	5%	1/4W	
R353	1-247-881-00	CARBON	120K	5%	1/4W	
R354	1-249-427-11	CARBON	6.8K	5%	1/4W	
R355	1-249-423-11	CARBON	3.3K	5%	1/4W	
R356	1-249-427-11	CARBON	6.8K	5%	1/4W	
R357	1-249-409-11	CARBON	220	5%	1/4W	
R358	1-249-409-11	CARBON	220	5%	1/4W	
R359	1-249-418-11	CARBON	1.2K	5%	1/4W	
R360	1-249-410-11	CARBON	270	5%	1/4W	
R361	1-249-417-11	CARBON	1K	5%	1/4W	
R362	1-249-441-11	CARBON	100K	5%	1/4W	
R363	1-249-410-11	CARBON	270	5%	1/4W	
R364	1-249-417-11	CARBON	1K	5%	1/4W	
R365	1-249-409-11	CARBON	220	5%	1/4W	
R366	1-249-419-11	CARBON	1.5K	5%	1/4W	
R367	1-249-409-11	CARBON	220	5%	1/4W	
R368	1-249-436-11	CARBON	39K	5%	1/4W	
R369	1-249-425-11	CARBON	4.7K	5%	1/4W	
R370	1-249-417-11	CARBON	1K	5%	1/4W	
R371	1-249-418-11	CARBON	1.2K	5%	1/4W	
R373	1-249-428-11	CARBON	8.2K	5%	1/4W	
R374	1-249-431-11	CARBON	15K	5%	1/4W	
R377	1-249-436-11	CARBON	39K	5%	1/4W	
R378	1-249-441-11	CARBON	100K	5%	1/4W	
R379	1-249-435-11	CARBON	33K	5%	1/4W	
R380	1-249-436-11	CARBON	39K	5%	1/4W	
R381	1-249-417-11	CARBON	1K	5%	1/4W	
R382	1-249-409-11	CARBON	220	5%	1/4W	
R384	1-249-421-11	CARBON	2.2K	5%	1/4W	
R385	1-247-891-00	CARBON	330K	5%	1/4W	
R386	1-247-891-00	CARBON	330K	5%	1/4W	
R387	1-215-867-00	METAL OXIDE	470	5%	1W	F
R388	1-249-434-11	CARBON	27K	5%	1/4W	
R390	1-249-429-11	CARBON	10K	5%	1/4W	
R392	1-249-414-11	CARBON	560	5%	1/4W	
R393	1-249-414-11	CARBON	560	5%	1/4W	
R394	1-249-414-11	CARBON	560	5%	1/4W	
R395	1-249-417-11	CARBON	1K	5%	1/4W	
R396	1-249-410-11	CARBON	270	5%	1/4W	
R397	1-249-417-11	CARBON	1K	5%	1/4W	
R398	1-249-425-11	CARBON	4.7K	5%	1/4W	
R399	1-249-437-11	CARBON	47K	5%	1/4W	
R414	1-249-415-11	CARBON	680	5%	1/4W	
R415	1-249-416-11	CARBON	820	5%	1/4W	
R416	1-249-415-11	CARBON	680	5%	1/4W	
R417	1-249-415-11	CARBON	680	5%	1/4W	
R418	1-215-412-00	METAL	430	1%	1/6W	
R419	1-249-414-11	CARBON	560	5%	1/4W	
R420	1-249-414-11	CARBON	560	5%	1/4W	
R421	1-249-414-11	CARBON	560	5%	1/4W	
R425	1-249-409-11	CARBON	220	5%	1/4W	
R427	1-249-415-11	CARBON	680	5%	1/4W	
R428	1-249-409-11	CARBON	220	5%	1/4W	
R429	1-249-433-11	CARBON	22K	5%	1/4W	
R430	1-249-417-11	CARBON	1K	5%	1/4W	
R431	1-249-419-11	CARBON	1.5K	5%	1/4W	
R432	1-249-417-11	CARBON	1K	5%	1/4W	

B F

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION				REMARK
R433	1-249-421-11	CARBON	2.2K	5%	1/4W	
R434	1-249-417-11	CARBON	1K	5%	1/4W	
R435	1-247-893-11	CARBON	390K	5%	1/4W	
R438	1-249-416-11	CARBON	820	5%	1/4W	
R439	1-249-413-11	CARBON	470	5%	1/4W	
R440	1-249-435-11	CARBON	33K	5%	1/4W	
R441	1-249-435-11	CARBON	33K	5%	1/4W	
R444	1-249-417-11	CARBON	1K	5%	1/4W	
R445	1-249-413-11	CARBON	470	5%	1/4W	
R446	1-249-425-11	CARBON	4.7K	5%	1/4W	
R447	1-249-424-11	CARBON	3.9K	5%	1/4W	
R448	1-249-429-11	CARBON	10K	5%	1/4W	
R449	1-249-423-11	CARBON	3.3K	5%	1/4W	
R450	1-249-425-11	CARBON	4.7K	5%	1/4W	
R452	1-249-429-11	CARBON	10K	5%	1/4W	
R453	1-249-432-11	CARBON	18K	5%	1/4W	
R454	1-249-437-11	CARBON	47K	5%	1/4W	
R1308	1-249-413-11	CARBON	470	5%	1/4W	
R1313	1-249-429-11	CARBON	10K	5%	1/4W	
R1315	1-249-429-11	CARBON	10K	5%	1/4W	
R2446	1-249-416-11	CARBON	820	5%	1/4W	
R2447	1-249-416-11	CARBON	820	5%	1/4W	
R2448	1-249-416-11	CARBON	820	5%	1/4W	
R2449	1-249-416-11	CARBON	820	5%	1/4W	
R2450	1-249-436-11	CARBON	39K	5%	1/4W	
R2451	1-249-435-11	CARBON	33K	5%	1/4W	
R2460	1-249-424-11	CARBON	3.9K	5%	1/4W	
R2461	1-249-432-11	CARBON	18K	5%	1/4W	
R2462	1-249-425-11	CARBON	4.7K	5%	1/4W	
R2463	1-249-419-11	CARBON	1.5K	5%	1/4W	
R2465	1-249-417-11	CARBON	1K	5%	1/4W	
R2466	1-249-417-11	CARBON	1K	5%	1/4W	
R2472	1-249-401-11	CARBON	47	5%	1/4W	

<VARIABLE RESISTOR>

RV301	1-228-993-00	RES, ADJ, CARBON 4.7K	
RV331	1-230-504-11	RES, ADJ, CARBON 220	

<SWITCH>

S301	1-554-186-00	SWITCH, LEVER	

<TRANSFORMER>

T331	1-404-584-11	COIL	

<CRYSTAL>

X331	1-567-413-11	VIBRATOR, CRYSTAL	
X332	1-527-789-00	VINRATOR, CRYSTAL	

****

*A-1245-463-A F BOARD, COMPLETE
****

*4-341-751-01 EYELET
*4-341-752-01 EYELET (EY1,EY2,EY3,EY4,EY21,EY22)

<CAPACITOR>

C601	1-130-711-00	FILM	0.22MF	20%	250V
C602 ⚠	1-136-567-51	FILM	0.47MF	20%	250V
C604 ⚠	1-161-964-61	CERAMIC	0.0047MF		250V
C605 ⚠	1-161-964-61	CERAMIC	0.0047MF		250V
C606 ⚠	1-161-964-61	CERAMIC	0.0047MF		250V
C607 ⚠	1-161-964-61	CERAMIC	0.0047MF		250V
C608 ⚠	1-136-360-51	FILM	0.22MF	20%	250V
C609	1-124-122-11	ELECT	100MF	20%	50V
C610	1-124-910-11	ELECT	47MF	20%	50V
C611	1-124-122-11	ELECT	100MF	20%	50V
C612	1-162-116-00	CERAMIC	680PF	10%	2KV
C613	1-106-379-12	MYLAR	0.033MF	10%	200V
C618	1-125-555-11	ELECT	330MF	20%	400V
C620	1-129-724-00	FILM	0.068MF	20%	630V
C623	1-102-030-00	CERAMIC	330PF	10%	500V
C651 ⚠	1-162-578-51	CERAMIC	0.0047MF	20%	400V
C652 ⚠	1-162-578-51	CERAMIC	0.0047MF	20%	400V
C653	1-125-469-11	ELECT(BLOCK)	820MF	20%	200V
C654	1-124-607-11	ELECT	2200MF	20%	50V
C655	1-124-618-11	ELECT	2200MF	20%	35V
C656	1-124-360-00	ELECT	1000MF	20%	16V
C658	1-102-030-00	CERAMIC	330PF	10%	500V
C661	1-102-030-00	CERAMIC	330PF	10%	500V
C662	1-124-618-11	ELECT	2200MF	20%	35V
C663	1-136-173-00	FILM	0.47MF	5%	50V
C664	1-162-115-00	CERAMIC	330PF	10%	2KV
C690 ⚠	1-162-578-51	CERAMIC	0.0047MF	20%	400V
C691 ⚠	1-162-578-51	CERAMIC	0.0047MF	20%	400V

<CONNECTOR>

CNF1	*1-506-348-99	PIN, CONNECTOR 3P	
CNF2	*1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P	
CNF3	*1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P	
CNF4	*1-564-513-11	PLUG, CONNECTOR 10P	
CNF5	*1-564-104-00	PIN, CONNECTOR 3P	
CNF6	*1-508-767-00	PIN, CONNECTOR (5MM PITCH) 5P	
CNF8	*1-564-505-11	PLUG, CONNECTOR 2P	

<DIODE>

D601 ⚠	8-719-946-90	DIODE KBU4JL-6088	
D605	8-719-302-21	DIODE EU2Z	
D607	8-719-300-70	DIODE RH-1C	
D610	8-719-302-21	DIODE EU2Z	
D651	8-719-939-07	DIODE ERD38-06	
D652	8-719-301-64	DIODE RU-4DS	
D653	8-719-300-59	DIODE CTU-12S	
D654	8-719-300-33	DIODE RU-3AM	
D655	8-719-300-33	DIODE RU-3AM	
D657	8-719-300-59	DIODE CTU-12S	

<FUSE>

F601 ⚠	1-532-299-11	FUSE, TIME-LAG 5A/250V	
	*1-533-189-11	HOLDER, FUSE; F601	

<IC>

IC602	8-749-920-63	IC STR-S5941	

<COIL>

L658	1-410-397-21	FERRITE BEAD INDUCTOR	
L659	1-410-397-21	FERRITE BEAD INDUCTOR	
L660	1-410-397-21	FERRITE BEAD INDUCTOR	
L661	1-410-397-21	FERRITE BEAD INDUCTOR	

F A

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION				REMARK
L662	1-410-397-21	FERRITE BEAD INDUCTOR				

<IC LINK>

PS652 ⚠	1-532-984-91	LINK, IC	2A			
PS653 ⚠	1-532-984-91	LINK, IC	2A			
PS654 ⚠	1-532-984-91	LINK, IC	2A			

<TRANSISTOR>

Q651	8-729-900-36	TRANSISTOR DTC124ES	
Q652	8-729-177-32	TRANSISTOR 2SD773	

<RESISTOR>

R601	1-216-400-11	METAL OXIDE	8.2	5%	3W	F
R602	1-247-895-00	CARBON	470K	5%	1/4W	
R603	1-216-400-11	METAL OXIDE	8.2	5%	3W	F
R604	1-207-612-00	WIREWOUND	0.1	10%	2W	F
R605	1-205-949-11	WIREWOUND	1.8	5%	10W	
R606	1-205-949-11	WIREWOUND	1.8	5%	10W	
R607	1-215-883-11	METAL OXIDE	33	5%	2W	F
R608	1-216-400-11	METAL OXIDE	8.2	5%	3W	F
R609	1-216-400-11	METAL OXIDE	8.2	5%	3W	F
R611	1-216-398-11	METAL OXIDE	5.6	5%	3W	F
R612	1-216-489-11	METAL OXIDE	27K	5%	3W	F
R613	1-216-489-11	METAL OXIDE	27K	5%	3W	F
R651 ⚠	1-247-289-11	CARBON	8.2K	5%	1/4W	
R653	1-215-925-11	METAL OXIDE	22K	5%	3W	F
R654	1-249-425-11	CARBON	4.7K	5%	1/4W	
R655	1-247-739-11	CARBON	100	5%	1/2W	

<RELAY>

RY601 ⚠	1-515-579-11	RELAY	<JA7RY1>

<TRANSFORMER>

T601	1-421-866-12	LFT	
T602 ⚠	1-421-776-11	LFT	
T603 ⚠	1-449-500-21	TRANSFORMER, REGULATOR	
T604 ⚠	1-421-776-11	LFT	

<THERMISTOR>

THP601 ⚠	1-808-059-31	THERMISTOR, POSITIVE	

****

*A-1296-678-A A BOARD, COMPLETE
****

1-464-964-11 IF BLOCK (IFG-5.5S)

<CAPACITOR>

C101	1-126-233-11	ELECT	22MF	20%	50V
C102	1-126-103-11	ELECT	470MF	20%	16V
C103	1-130-475-00	MYLAR	0.0022MF	10%	50V
C104	1-124-477-11	ELECT	47MF	20%	16V
C105	1-101-003-00	CERAMIC	0.0047MF		50V
C106	1-126-233-11	ELECT	22MF	20%	50V
C107	1-136-177-00	FILM	1MF	5%	50V
C108	1-101-004-00	CERAMIC	0.01MF		50V
C109	1-101-003-00	CERAMIC	0.0047MF		50V
C110	1-101-003-00	CERAMIC	0.0047MF		50V
C111	1-124-477-11	ELECT	47MF	20%	16V
C112	1-101-003-00	CERAMIC	0.0047MF		50V
C113	1-101-004-00	CERAMIC	0.01MF		50V
C115	1-123-875-11	ELECT	10MF	20%	50V
C116	1-123-875-11	ELECT	10MF	20%	50V
C117	1-123-875-11	ELECT	10MF	20%	50V
C118	1-123-875-11	ELECT	10MF	20%	50V
C119	1-136-161-00	MYLAR	0.047MF	10%	50V
C120	1-102-965-00	CERAMIC	39PF	5%	50V
C121	1-124-477-11	ELECT	47MF	20%	16V
C122	1-124-477-11	ELECT	47MF	20%	16V
C123	1-101-004-00	CERAMIC	0.01MF		50V
C124	1-124-477-11	ELECT	47MF	20%	16V
C127	1-124-477-11	ELECT	47MF	20%	16V
C128	1-124-477-11	ELECT	47MF	20%	16V
C129	1-124-477-11	ELECT	47MF	20%	16V
C130	1-126-101-11	ELECT	100MF	20%	16V
C132	1-101-888-00	CERAMIC	68PF	5%	50V
C133	1-102-973-00	CERAMIC	100PF	5%	50V
C134	1-102-963-00	CERAMIC	33PF	5%	50V
C135	1-124-477-11	ELECT	47MF	20%	16V
C136	1-124-477-11	ELECT	47MF	20%	16V
C137	1-124-477-11	ELECT	47MF	20%	16V
C138	1-136-165-00	MYLAR	0.1MF	10%	50V
C141	1-102-822-00	CERAMIC	390PF	5%	50V
C142	1-101-361-00	CERAMIC	150PF	5%	50V
C143	1-102-973-00	CERAMIC	100PF	5%	50V
C145	1-101-888-00	CERAMIC	68PF	5%	50V
C146	1-102-965-00	CERAMIC	39PF	5%	50V
C149	1-102-114-00	CERAMIC	470PF	10%	50V
C150	1-102-114-00	CERAMIC	470PF	10%	50V
C151	1-124-477-11	ELECT	47MF	20%	16V
C152	1-136-161-00	MYLAR	0.047MF	10%	50V
C153	1-101-004-00	CERAMIC	0.01MF		50V
C154	1-101-004-00	CERAMIC	0.01MF		50V
C155	1-124-477-11	ELECT	47MF	20%	16V
C181	1-101-004-00	CERAMIC	0.01MF		50V

<FILTER>

CD101	1-404-684-11	DISCRIMINATOR, CERAMIC	
CF101	1-567-569-11	FILTER, CERAMIC	

<CONNECTOR>

CNA11	*1-566-659-11	CONNECTOR, HINGE (SOCKET) 18P	
CNA16	*1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)	
CNA17	*1-564-886-21	PLUG, CONNECTOR 9P	
CNA18	*1-565-503-11	CONNECTOR, BOARD TO BOARD 12P	

<DIODE>

D101	8-719-000-12	DIODE MC931	
D108	8-719-911-19	DIODE 1SS119	
D109	8-719-911-19	DIODE 1SS119	

<IC>

IC101	8-759-208-08	IC TC4052BPHB	
IC102	8-759-946-32	IC TEA2014A	
IC103	8-759-978-65	IC SAB3036	
IC105	8-759-003-90	IC TBA129	

A C

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION				REMARK
		<COIL>				
L100	1-410-116-11	INDUCTOR	560UH			
L101	1-408-225-00	INDUCTOR	3.3UH			
L102	1-410-470-11	INDUCTOR	10UH			
L103	1-408-408-00	INDUCTOR	8.2UH			
L104	1-410-476-11	INDUCTOR	33UH			
L106	1-410-471-11	INDUCTOR	12UH			
L108	1-410-471-11	INDUCTOR	12UH			
L109	1-408-420-00	INDUCTOR	82UH			
		<TRANSISTOR>				
Q106	8-729-900-65	TRANSISTOR DTA144ES				
Q107	8-729-900-89	TRANSISTOR DTC144ES				
Q109	8-729-901-59	TRANSISTOR BF199				
Q110	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q111	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q112	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q113	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q114	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q115	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q116	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q118	8-729-119-76	TRANSISTOR 2SA1175-HFE				
Q181	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q182	8-729-900-89	TRANSISTOR DTC144ES				
		<RESISTOR>				
R102	1-249-429-11	CARBON	10K	5%	1/4W	
R103	1-249-429-11	CARBON	10K	5%	1/4W	
R104	1-249-465-11	CARBON	47K	5%	1/4W	
R105	1-247-721-11	CARBON	4.7K	5%	1/4W	
R106	1-247-721-11	CARBON	4.7K	5%	1/4W	
R107	1-249-432-11	CARBON	18K	5%	1/4W	
R109	1-249-441-11	CARBON	100K	5%	1/4W	
R110	1-249-429-11	CARBON	10K	5%	1/4W	
R111	1-249-423-11	CARBON	3.3K	5%	1/4W	
R112	1-249-425-11	CARBON	4.7K	5%	1/4W	
R113	1-249-425-11	CARBON	4.7K	5%	1/4W	
R114	1-249-413-11	CARBON	470	5%	1/4W	
R115	1-249-405-11	CARBON	100	5%	1/4W	
R118	1-247-725-11	CARBON	10K	5%	1/4W	
R121	1-249-429-11	CARBON	10K	5%	1/4W	
R122	1-249-428-11	CARBON	8.2K	5%	1/4W	
R123	1-249-460-11	CARBON	15K	5%	1/4W	
R124	1-249-460-11	CARBON	15K	5%	1/4W	
R125	1-249-460-11	CARBON	15K	5%	1/4W	
R126	1-249-460-11	CARBON	15K	5%	1/4W	
R127	1-249-460-11	CARBON	15K	5%	1/4W	
R128	1-247-708-11	CARBON	470	5%	1/4W	
R129	1-249-421-11	CARBON	2.2K	5%	1/4W	
R130	1-249-421-11	CARBON	2.2K	5%	1/4W	
R131	1-249-422-11	CARBON	2.7K	5%	1/4W	
R133	1-249-422-11	CARBON	2.7K	5%	1/4W	
R134	1-249-422-11	CARBON	2.7K	5%	1/4W	
R136	1-249-413-11	CARBON	470	5%	1/4W	
R137	1-249-405-11	CARBON	100	5%	1/4W	
R138	1-249-413-11	CARBON	470	5%	1/4W	
R139	1-249-413-11	CARBON	470	5%	1/4W	
R140	1-249-418-11	CARBON	1.2K	5%	1/4W	
R141	1-249-413-11	CARBON	470	5%	1/4W	
R142	1-249-413-11	CARBON	470	5%	1/4W	
R143	1-249-416-11	CARBON	820	5%	1/4W	
R144	1-249-417-11	CARBON	1K	5%	1/4W	
R145	1-249-413-11	CARBON	470	5%	1/4W	
R146	1-249-421-11	CARBON	2.2K	5%	1/4W	
R147	1-249-429-11	CARBON	10K	5%	1/4W	
R148	1-249-415-11	CARBON	680	5%	1/4W	
R152	1-249-417-11	CARBON	1K	5%	1/4W	
R153	1-249-417-11	CARBON	1K	5%	1/4W	
R154	1-247-710-11	CARBON	560	5%	1/4W	
R155	1-249-417-11	CARBON	1K	5%	1/4W	
R157	1-247-713-11	CARBON	1K	5%	1/4W	
R158	1-247-704-11	CARBON	220	5%	1/4W	
R159	1-247-704-11	CARBON	220	5%	1/4W	
R160	1-249-396-11	CARBON	18	5%	1/4W	
R164	1-247-696-11	CARBON	47	5%	1/4W	
R165	1-247-696-11	CARBON	47	5%	1/4W	
R166	1-249-460-11	CARBON	15K	5%	1/4W	
R181	1-247-713-11	CARBON	1K	5%	1/4W	
R182	1-249-425-11	CARBON	4.7K	5%	1/4W	
		<IF BLOCK>				
SIF101	1-464-963-11	IF BLOCK (IFG-334F)				
VIF101	1-464-962-11	IF BLOCK (IFG-389FS)				
		<TRANSFORMER>				
T101	1-404-806-11	COIL				
T102	1-404-493-00	COIL				
		<TUNER>				
TU101⚠	1-465-059-11	TUNER, ET (UV-616S)				
		<CRYSTAL>				
X101	1-527-726-00	VIBRATOR, CRYSTAL				
		**********				
	*A-1330-967-A	C BOARD, COMPLETE **********				
	*4-379-160-01	COVER (REAR LID), CV				
	*4-379-167-01	COVER (MAIN), CV				
		<CAPACITOR>				
C704	1-102-116-00	CERAMIC	680PF	10%	50V	
C705	1-102-980-00	CERAMIC	270PF	5%	50V	
C706	1-102-116-00	CERAMIC	680PF	10%	50V	
C707	1-162-116-00	CERAMIC	680PF	10%	2KV	
C708	1-162-114-00	CERAMIC	0.0047MF		2KV	
C709	1-102-116-00	CERAMIC	680PF	10%	50V	
C710	1-123-947-00	ELECT	10MF	20%	250V	
C711	1-101-880-00	CERAMIC	47PF	5%	50V	
C712	1-102-820-00	CERAMIC	330PF	5%	50V	
C714	1-126-103-11	ELECT	470MF	20%	16V	
C716	1-162-622-11	CERAMIC	330PF	10%	400V	
C717	1-102-114-00	CERAMIC	470PF	10%	50V	
C718	1-102-114-00	CERAMIC	470PF	10%	50V	
C719	1-102-114-00	CERAMIC	470PF	10%	50V	
C721	1-123-875-11	ELECT	10MF	20%	50V	
		<CONNECTOR>				

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

C VM

REF.NO.	PART NO.	DESCRIPTION				REMARK
CNC71	*1-506-348-99	PIN, CONNECTOR 3P				
CNC72	*1-564-509-11	PLUG, CONNECTOR 6P				
CNC81	*1-564-506-11	PLUG, CONNECTOR 3P				
CNC82	*1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P				
		<DIODE>				
D701	8-719-911-19	DIODE 1SS119				
D702	8-719-911-19	DIODE 1SS119				
D703	8-719-911-19	DIODE 1SS119				
D704	8-719-911-19	DIODE 1SS119				
D705	8-719-911-19	DIODE 1SS119				
D706	8-719-911-19	DIODE 1SS119				
D707	8-719-911-19	DIODE 1SS119				
D708	8-719-911-19	DIODE 1SS119				
D709	8-719-911-19	DIODE 1SS119				
D710	8-719-911-19	DIODE 1SS119				
D711	8-719-300-33	DIODE RU-3AM				
D713	8-719-110-14	DIODE RD9.1ES-33				
		<JACK>				
J701	1-526-798-51	SOCKET, PICTURE TUBE				
		<COIL>				
L704	1-410-476-11	INDUCTOR	33UH			
		<TRANSISTOR>				
Q702	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q703	8-729-326-11	TRANSISTOR 2SC2611				
Q704	8-729-200-17	TRANSISTOR 2SA1091				
Q705	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q706	8-729-326-11	TRANSISTOR 2SC2611				
Q707	8-729-200-17	TRANSISTOR 2SA1091				
Q708	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q709	8-729-326-11	TRANSISTOR 2SC2611				
Q710	8-729-200-17	TRANSISTOR 2SA1091				
		<RESISTOR>				
R703	1-102-822-00	CERAMIC	390PF	5%	50V	
R704	1-216-486-00	METAL OXIDE	8.2K	5%	3W	F
R705	1-202-824-00	SOLID	3.3K	10%	1/2W	
R706	1-249-409-11	CARBON	220	5%	1/4W	
R707	1-247-706-11	CARBON	330	5%	1/4W	
R708	1-247-692-11	CARBON	22	5%	1/4W	
R709	1-202-844-00	SOLID	330K	10%	1/2W	
R710	1-215-453-00	METAL	22K	1%	1/6W	
R712	1-249-417-11	CARBON	1K	5%	1/4W	
R713	1-215-461-00	METAL	47K	1%	1/6W	
R714	1-216-486-00	METAL OXIDE	8.2K	5%	3W	F
R715	1-202-824-00	SOLID	3.3K	10%	1/2W	
R716	1-247-704-11	CARBON	220	5%	1/4W	
R717	1-247-711-11	CARBON	680	5%	1/4W	
R718	1-202-814-11	SOLID	33K	10%	1/2W	
R720	1-249-423-11	CARBON	3.3K	5%	1/4W	
R721	1-202-842-11	SOLID	220K	10%	1/2W	
R722	1-202-848-00	SOLID	680K	10%	1/2W	
R723	1-249-417-11	CARBON	1K	5%	1/4W	
R724	1-202-846-00	SOLID	470K	10%	1/2W	
R725	1-202-838-00	SOLID	100K	10%	1/2W	
R726	1-202-824-00	SOLID	3.3K	10%	1/2W	
R727	1-249-409-11	CARBON	220	5%	1/4W	
R728	1-216-350-11	METAL OXIDE	1.2	5%	1W	F
R729	1-249-416-11	CARBON	820	5%	1/4W	
R731	1-249-423-11	CARBON	3.3K	5%	1/4W	
R732	1-249-415-11	CARBON	680	5%	1/4W	
R733	1-247-711-11	CARBON	680	5%	1/4W	
R734	1-249-405-11	CARBON	100	5%	1/4W	
R735	1-214-779-00	METAL	120K	1%	1/4W	
R736	1-216-486-00	METAL OXIDE	8.2K	5%	3W	F
R737	1-214-777-00	METAL	100K	1%	1/4W	
R738	1-202-549-00	SOLID	100	10%	1/2W	
R739	1-249-417-11	CARBON	1K	5%	1/4W	
R740	1-202-846-00	SOLID	470K	10%	1/2W	
R741	1-202-837-00	SOLID	82K	10%	1/2W	
		<VARIABLE RESISTOR>				
RV701	1-230-641-11	RES, ADJ, METAL GLAZE 2.2M				
RV702⚠	1-230-619-11	RES, ADJ, METAL GLAZE 110M				
RV703	1-228-991-00	RES, ADJ, CARBON 2.2K				
RV704	1-228-991-00	RES, ADJ, CARBON 2.2K				
		**********				
	*A-1342-088-A	VM BOARD, COMPLETE **********				
	*1-564-506-11	PLUG, CONNECTOR 3P				
	*1-564-507-11	PLUG, CONNECTOR 4P				
		<CAPACITOR>				
C751	1-102-971-00	CERAMIC	82PF	5%	50V	
C752	1-106-349-00	MYLAR	0.0018MF	10%	100V	
C754	1-126-101-11	ELECT	100MF	20%	16V	
C755	1-102-973-00	CERAMIC	100PF	5%	50V	
C756	1-106-367-00	MYLAR	0.01MF	10%	100V	
C758	1-106-367-00	MYLAR	0.01MF	10%	100V	
C760	1-124-925-11	ELECT	2.2MF	20%	50V	
C761	1-106-220-00	MYLAR	0.1MF	10%	100V	
C763	1-124-122-11	ELECT	100MF	20%	35V	
C764	1-126-176-11	ELECT	220MF	20%	6.3V	
C765	1-101-006-00	CERAMIC	0.047MF		50V	
C766	1-124-122-11	ELECT	100MF	20%	35V	
		<COIL>				
L751	1-408-413-00	INDUCTOR	22UH			
L752	1-410-482-31	INDUCTOR	100UH			
		<TRANSISTOR>				
Q751	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q752	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q753	8-729-140-96	TRANSISTOR 2SD774-34				
Q754	8-729-177-22	TRANSISTOR 2SB772-Q				
Q755	8-729-188-23	TRANSISTOR 2SD882-P				
Q756	8-729-808-76	TRANSISTOR 2SD1913SA				
Q757	8-729-119-78	TRANSISTOR 2SC2785-HFE				
		<RESISTOR>				
R751	1-249-409-11	CARBON	220	5%	1/4W	
R752	1-249-409-11	CARBON	220	5%	1/4W	

VM D

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION				REMARK
R753	1-249-418-11	CARBON	1.2K	5%	1/4W	
R754	1-249-416-11	CARBON	820	5%	1/4W	
R755	1-216-431-11	METAL OXIDE	560	5%	1W	F
R756	1-249-414-11	CARBON	560	5%	1/4W	
R757	1-249-426-11	CARBON	5.6K	5%	1/4W	
R758	1-249-435-11	CARBON	33K	5%	1/4W	
R759	1-249-405-11	CARBON	100	5%	1/4W	F
R760	1-216-449-11	METAL OXIDE	56	5%	2W	F
R764	1-249-409-11	CARBON	220	5%	1/4W	
R765	1-249-381-11	CARBON	1	5%	1/4W	F
R766	1-249-426-11	CARBON	5.6K	5%	1/4W	
R767	1-249-417-11	CARBON	1K	5%	1/4W	
R768	1-249-426-11	CARBON	5.6K	5%	1/4W	
R769	1-249-409-11	CARBON	220	5%	1/4W	
R771	1-249-423-11	CARBON	3.3K	5%	1/4W	
R772	1-249-391-11	CARBON	6.8	5%	1/4W	F
R773	1-249-396-11	CARBON	18	5%	1/4W	
R776	1-249-381-11	CARBON	1	5%	1/4W	F

****

*A-1345-857-A D.BOARD, COMPLETE
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*1-559-991-41 CONNECTOR ASSY 1P
*4-341-751-01 EYELET (EY5,EY6,EY7,EY8,EY9,EY10,EY14, EY15,EY16,EY17,EY26,EY27,EY28,EY29,EY30)
*4-341-752-01 EYELET (EY1,EY2,EY3,EY4,EY12,EY13,EY20, EY21,EY23,EY24)

<CAPACITOR>

REF.NO.	PART NO.	DESCRIPTION				REMARK
C501	1-124-927-11	ELECT	4.7MF	20%	50V	
C502	1-124-927-11	ELECT	4.7MF	20%	50V	
C503	1-106-371-00	MYLAR	0.015MF	10%	100V	
C504	1-101-361-00	CERAMIC	150PF	5%	50V	
C505	1-130-473-00	MYLAR	0.0015MF	5%	50V	
C506	1-106-375-12	MYLAR	0.022MF		200V	
C507	1-136-171-00	FILM	0.33MF	5%	50V	
C508	1-106-375-12	MYLAR	0.022MF		200V	
C509	1-106-220-00	MYLAR	0.1MF	10%	100V	
C510	1-161-959-00	CERAMIC	22PF	10%	500V	
C511	1-106-355-12	MYLAR	0.0033MF	10%	100V	
C513	1-106-343-00	MYLAR	0.001MF	10%	100V	
C514	1-106-228-00	MYLAR	0.22MF	10%	100V	
C515	1-124-499-11	ELECT	1MF	20%	50V	
C516	1-102-112-00	CERAMIC	330PF	10%	50V	
C517	1-124-910-11	ELECT	47MF	20%	50V	
C518	1-124-902-00	ELECT	0.47MF	20%	50V	
C519	1-136-173-00	FILM	0.47MF	5%	50V	
C520	1-102-121-00	CERAMIC	0.0022MF	10%	50V	
C521	1-106-220-00	MYLAR	0.1MF	10%	100V	
C522	1-126-105-11	ELECT	1000MF	20%	35V	
C523	1-106-343-00	MYLAR	0.001MF	10%	100V	
C524	1-106-355-12	MYLAR	0.0033MF	10%	100V	
C525	1-102-973-00	CERAMIC	100PF	5%	50V	
C527	1-106-220-00	MYLAR	0.1MF	10%	100V	
C531	1-126-104-11	ELECT	470MF	20%	25V	
C532	1-124-122-11	ELECT	100MF	20%	50V	
C533	1-106-216-00	MYLAR	0.068MF	10%	100V	
C534	1-124-120-11	ELECT	220MF	20%	25V	
C536	1-131-365-00	TANTALUM	10MF	10%	16V	
C537	1-124-499-11	ELECT	1MF	20%	50V	
C538	1-106-343-00	MYLAR	0.001MF	10%	100V	
C539	1-102-820-00	CERAMIC	330PF	5%	50V	
C540	1-102-114-00	CERAMIC	470PF	10%	50V	
C541	1-124-902-00	ELECT	0.47MF	20%	50V	
C591	1-123-875-11	ELECT	10MF	20%	50V	
C592	1-124-910-11	ELECT	47MF	20%	50V	
C593	1-102-820-00	CERAMIC	330PF	5%	50V	
C596	1-106-220-00	MYLAR	0.1MF	10%	100V	
C597	1-102-951-00	CERAMIC	15PF	10%	50V	
C801	1-126-105-11	ELECT	1000MF	20%	35V	
C802	1-102-228-00	CERAMIC	470PF	10%	500V	
C804	1-123-948-00	ELECT	22MF	20%	250V	
C805	1-162-114-00	CERAMIC	0.0047MF		2KV	
C806	1-106-387-00	MYLAR	0.068MF	10%	200V	
C807	1-106-395-00	MYLAR	0.15MF	10%	200V	
C810	1-124-494-00	ELECT	33MF		160V	
C811	1-136-541-11	FILM	1.5MF	5%	200V	
C812	1-123-946-00	ELECT	4.7MF	20%	250V	
C813	1-102-212-00	CERAMIC	820PF	10%	500V	
C814 ⚠	1-161-731-11	CERAMIC	0.001MF	10%	2KV	
C815	1-136-597-11	FILM	0.89MF	5%	200V	
C817	1-136-686-11	FILM	0.018MF	3%	1.4KV	
C818	1-136-759-11	FILM	0.039MF	5%	630V	
C819 ⚠	1-162-116-51	CERAMIC	680PF	10%	2KV	
C820	1-106-357-00	MYLAR	0.0039MF		200V	
C820A	1-108-416-12	MYLAR	0.0039MF		200V	
C821 ⚠	1-162-116-51	CERAMIC	680PF	10%	2KV	
C822	1-102-114-00	CERAMIC	470PF	10%	50V	
C823	1-106-359-00	MYLAR	0.0047MF	10%	200V	
C824	1-102-212-00	CERAMIC	820PF	10%	500V	
C828	1-106-383-00	MYLAR	0.047MF	10%	100V	
C829	1-106-379-12	MYLAR	0.033MF	10%	200V	
C849	1-102-112-00	CERAMIC	330PF	10%	50V	
C850	1-101-821-00	CERAMIC	0.0022MF		500V	
C851	1-126-105-11	ELECT	1000MF	20%	35V	
C852	1-102-002-00	CERAMIC	680PF	10%	500V	
C854	1-124-122-11	ELECT	100MF	20%	50V	
C855	1-124-499-11	ELECT	1MF	20%	50V	
C860	1-106-399-00	MYLAR	0.22MF	10%	200V	
C861 ⚠	1-161-731-11	CERAMIC	0.001MF	10%	2KV	
C1501	1-124-925-11	ELECT	2.2MF	20%	50V	
C1502	1-123-875-11	ELECT	10MF	20%	50V	
C1503	1-106-343-00	MYLAR	0.001MF	10%	100V	
C1504	1-124-910-11	ELECT	47MF	20%	50V	
C1505	1-106-383-00	MYLAR	0.047MF	10%	100V	
C1507	1-106-355-12	MYLAR	0.0033MF	10%	100V	
C1508	1-123-875-11	ELECT	10MF	20%	50V	
C1509	1-124-499-11	ELECT	1MF	20%	50V	
C1511	1-123-875-11	ELECT	10MF	20%	50V	
C1512	1-106-367-00	MYLAR	0.01MF	10%	100V	
C1513	1-102-963-00	CERAMIC	33PF	5%	50V	
C1520	1-102-108-00	CERAMIC	150PF	10%	50V	
C1551	1-124-902-00	ELECT	0.47MF	20%	50V	
C1552	1-124-122-11	ELECT	100MF	20%	50V	
C1553	1-102-228-00	CERAMIC	470PF	10%	500V	
C1630	1-124-463-00	ELECT	0.1MF	20%	50V	
C1631	1-126-530-11	ELECT	22MF	20%	50V	
C1651	1-106-220-00	MYLAR	0.1MF	10%	100V	
C1654	1-106-220-00	MYLAR	0.1MF	10%	100V	
C1655	1-106-220-00	MYLAR	0.1MF	10%	100V	
C1656	1-124-902-00	ELECT	0.47MF	20%	50V	
C1657	1-106-383-00	MYLAR	0.047MF	10%	100V	
C1707	1-130-481-00	MYLAR	0.0068MF	10%	50V	
C1708	1-106-359-00	MYLAR	0.0047MF	10%	100V	
C1710	1-106-395-00	MYLAR	0.15MF	10%	200V	
C1711	1-124-925-11	ELECT	2.2MF	20%	50V	

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Replace only with part number specified.

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REF.NO.	PART NO.	DESCRIPTION				REMARK
C1712	1-124-927-11	ELECT	4.7MF	20%	50V	
C1713	1-124-910-11	ELECT	47MF	20%	50V	
C1714	1-124-911-11	ELECT	220MF	20%	50V	
C1715	1-124-910-11	ELECT	47MF	20%	50V	
C1716	1-106-228-00	MYLAR	0.22MF	10%	100V	
C1717	1-124-120-11	ELECT	220MF	20%	25V	
C1718	1-136-165-00	FILM	0.1MF	5%	50V	
C1719	1-124-927-11	ELECT	4.7MF	20%	50V	
C1720	1-124-927-11	ELECT	4.7MF	20%	50V	
C1721	1-123-875-11	ELECT	10MF	20%	50V	
C1722	1-124-927-11	ELECT	4.7MF	20%	50V	
C1723	1-123-875-11	ELECT	10MF	20%	50V	
C1724	1-126-233-11	ELECT	22MF	20%	50V	
C1725	1-124-360-00	ELECT	1000MF	20%	16V	
C1726	1-124-910-11	ELECT	47MF	20%	50V	
C1727	1-124-910-11	ELECT	47MF	20%	50V	
C1734	1-124-360-00	ELECT	1000MF	20%	16V	
C1735	1-106-379-12	MYLAR	0.033MF	10%	100V	
C1736	1-124-499-11	ELECT	1MF	20%	50V	
C1740	1-102-244-00	CERAMIC	220PF	10%	500V	
C5502	1-124-119-00	ELECT	330MF	20%	16V	
C5505	1-124-463-00	ELECT	0.1MF	20%	50V	

<FILTER>

REF.NO.	PART NO.	DESCRIPTION	REMARK
CF501	1-567-888-11	OSCILLATOR, CERAMIC	

<CONNECTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
CND20	*1-508-767-00	PIN, CONNECTOR (5MM PITCH) 5P	
CND21	*1-564-104-00	PIN, CONNECTOR 3P	
CND22	*1-564-515-11	PLUG, CONNECTOR 12P	
CND23	*1-564-506-11	PLUG, CONNECTOR 3P	
CND81	*1-564-506-11	PLUG, CONNECTOR 3P	
CND82	*1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P	
CND83	*1-564-038-00	CONNECTOR PLUG, DY (MINI) 6P	
CND84	*1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P	
CND85	*1-564-507-11	PLUG, CONNECTOR 4P	
CND87	*1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P	
CND801	*1-508-767-00	PIN, CONNECTOR (5MM PITCH) 5P	

<DIODE>

REF.NO.	PART NO.	DESCRIPTION	REMARK
D501	8-719-911-19	DIODE 1SS119	
D502	8-719-200-02	DIODE 10E2	
D504	8-719-911-55	DIODE U05G	
D506	8-719-016-42	DIODE MC932	
D508	8-719-911-19	DIODE 1SS119	
D511	8-719-911-55	DIODE U05G	
D512	8-719-911-55	DIODE U05G	
D513	8-719-109-81	DIODE RD4.7ES-B2	
D520	8-719-109-89	DIODE RD5.6ES-B2	
D591	8-719-911-19	DIODE 1SS119	
D592	8-719-911-19	DIODE 1SS119	
D593	8-719-911-19	DIODE 1SS119	
D801	8-719-300-33	DIODE RU-3AM	
D802	8-719-300-33	DIODE RU-3AM	
D803	8-719-901-19	DIODE V11N	
D804	8-719-911-55	DIODE U05G	
D805	8-719-911-55	DIODE U05G	
D806	8-719-945-80	DIODE ERC06-15S	
D807	8-719-945-80	DIODE ERC06-15S	
D808	8-719-900-26	DIODE ERD29-08J	
D809	8-719-911-19	DIODE 1SS119	
D850	8-719-901-58	DIODE RGP15J	
D1501	8-719-300-33	DIODE RU-3AM	
D1502	8-719-911-19	DIODE 1SS119	
D1503	8-719-911-19	DIODE 1SS119	
D1504	8-719-911-19	DIODE 1SS119	
D1505	8-719-016-42	DIODE MC932	
D1515	8-719-911-19	DIODE 1SS119	
D1550	8-719-911-19	DIODE 1SS119	
D1552	8-719-300-33	DIODE RU-3AM	
D1553	8-719-911-19	DIODE 1SS119	
D1652	8-719-200-02	DIODE 10E2	
D1701	8-719-901-58	DIODE RGP15J	
D1702	8-719-908-06	DIODE ERA81-005	
D1703	8-719-908-06	DIODE ERA81-005	
D1704	8-719-911-19	DIODE 1SS119	
D1705	8-719-911-19	DIODE 1SS119	
D1707	8-719-300-33	DIODE RU-3AM	
D1708	8-719-109-81	DIODE RD4.7ES-B2	
D1709	8-719-109-89	DIODE RD5.6ES-B2	
D1710	8-719-109-89	DIODE RD5.6ES-B2	

<IC>

REF.NO.	PART NO.	DESCRIPTION	REMARK
IC501	8-759-970-73	IC TBA2028B	
IC502	8-759-944-57	IC TDA8170	
IC503	8-749-920-60	IC STR90120	
IC1501	8-759-942-16	IC TBA2031A	
IC1701	8-759-103-93	IC UPC393C	
IC1702	8-759-112-93	IC UPC4570HA-1	
IC1704	8-759-982-13	IC RC7812FA	
	*4-363-147-00	HEAT SINK, H.PIN; IC1704	

<COIL>

REF.NO.	PART NO.	DESCRIPTION	REMARK
L501	1-408-225-00	INDUCTOR 3.3UH	
L801	1-459-111-00	COIL, DRAM CORE (CDI)	
L803	1-459-104-00	COIL, DUST CORE	
L804	1-408-235-00	INDUCTOR 2.2MMH	
L806	1-459-111-00	COIL, DRAM CORE (CDI)	
L807	1-408-938-00	INDUCTOR 22UH	
L809	*1-420-872-00	COIL, AIR CORE	
L811	1-459-104-00	COIL, DUST CORE	
L812	1-408-698-00	INDUCTOR 8.2UH	
L850	1-408-225-00	INDUCTOR 3.3UH	
L1651	1-443-012-00	TRANSFORMER,DYNAMIC CONVERSION	
L1652	1-459-583-11	COIL (WITH CORE)	
L1653	1-408-247-00	INDUCTOR 33MMH	
L1654	1-410-482-31	INDUCTOR 100UH	
L1702	1-410-093-11	INDUCTOR 33MMH	
L1703	1-459-592-11	COIL (WITH CORE) (PMC)	
L1704	1-459-075-00	COIL,DYNAMIC CONVERSION CHOKE	
L1705	1-408-235-00	INDUCTOR 2.2MMH	

<NEON LAMP>

REF.NO.	PART NO.	DESCRIPTION	REMARK
NL801	1-519-108-99	LAMP, NEON	

<IC LINK>

REF.NO.	PART NO.	DESCRIPTION	REMARK
PS1659A	1-537-927-91	LINK, IC	0.25A

D

REF.NO.	PART NO.	DESCRIPTION	REMARK
		<TRANSISTOR>	
Q501	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q502	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q503	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q505	8-729-140-96	TRANSISTOR 2SD774-34	
Q506	8-729-140-97	TRANSISTOR 2SB734-34	
Q507	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q509	8-729-900-80	TRANSISTOR DTC114ES	
Q510	8-729-900-80	TRANSISTOR DTC114ES	
Q512	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q514	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q591	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q592	8-729-900-80	TRANSISTOR DTC114ES	
Q598	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q804	8-729-305-01	TRANSISTOR 2SD1941-07	
	*4-378-214-01	HOLDER, TR; Q804	
Q805	8-729-119-80	TRANSISTOR 2SC2688-LK	
Q806	8-729-122-12	TRANSISTOR 2SA1221	
Q807	8-729-107-53	TRANSISTOR 2SC2275A	
Q1551	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1552	8-729-208-71	TRANSISTOR 2SC3298B-O	
Q1608	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1609	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1610	8-729-178-55	TRANSISTOR 2SC2785-E	
Q1613	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q1653	8-729-195-82	TRANSISTOR 2SC2958	
Q1701	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1703	8-729-208-71	TRANSISTOR 2SC3298B-O	
Q1704	8-729-140-96	TRANSISTOR 2SD774-34	
Q1705	8-729-140-96	TRANSISTOR 2SD774-34	
Q1706	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q1707	8-729-809-29	TRANSISTOR 2SC4159-E	
Q1708	8-729-140-97	TRANSISTOR 2SB734-34	
Q1709	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1710	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1711	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1712	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1716	8-729-900-80	TRANSISTOR DTC114ES	
Q1717	8-729-119-76	TRANSISTOR 2SA1175-HFE	
		<RESISTOR>	
R500	1-247-897-11	CARBON 560K 5% 1/4W	
R501	1-247-708-11	CARBON 470 5% 1/4W	
R502	1-249-409-11	CARBON 220 5% 1/4W	
R503	1-249-410-11	CARBON 270 5% 1/4W	
R504	1-215-427-00	METAL 1.8K 1% 1/6W	
R505	1-249-460-11	CARBON 15K 5% 1/4W	
R506	1-249-428-11	CARBON 8.2K 5% 1/4W	
R509	1-249-424-11	CARBON 3.9K 5% 1/4W	
R510	1-249-426-11	CARBON 5.6K 5% 1/4W	
R511	1-247-719-11	CARBON 3.3K 5% 1/4W	
R514	1-249-409-11	CARBON 220 5% 1/4W	
R515	1-249-423-11	CARBON 3.3K 5% 1/4W	
R516	1-249-408-11	CARBON 180 5% 1/4W	
R517	1-247-725-11	CARBON 10K 5% 1/4W	
R518	1-249-437-11	CARBON 47K 5% 1/4W	
R519	1-249-433-11	CARBON 22K 5% 1/4W	
R520	1-249-411-11	CARBON 330 5% 1/4W	
R521	1-247-700-11	CARBON 100 5% 1/4W	
R524	1-249-421-11	CARBON 2.2K 5% 1/4W	
R525	1-249-417-11	CARBON 1K 5% 1/4W	
R526	1-247-704-11	CARBON 220 5% 1/4W	F
R527	1-249-460-11	CARBON 15K 5% 1/4W	
R530	1-249-448-11	CARBON 1.2 5% 1/4W	F
R531	1-247-881-00	CARBON 120K 5% 1/4W	
R532	1-247-713-11	CARBON 1K 5% 1/4W	
R533	1-249-393-11	CARBON 10 5% 1/4W	
R534	1-246-543-00	CARBON 820K 5% 1/4W	
R536	1-247-725-11	CARBON 10K 5% 1/4W	
R537	1-249-463-11	CARBON 27K 5% 1/4W	
R538	1-249-441-11	CARBON 100K 5% 1/4W	
R539	1-247-883-00	CARBON 150K 5% 1/4W	
R540	1-249-434-11	CARBON 27K 5% 1/4W	
R541	1-249-438-11	CARBON 56K 5% 1/4W	
R542	1-249-429-11	CARBON 10K 5% 1/4W	
R543	1-249-448-11	CARBON 1.2 5% 1/4W	F
R544	1-247-745-11	CARBON 330 5% 1/2W	
R545	1-247-725-11	CARBON 10K 5% 1/4W	
R546	1-249-434-11	CARBON 27K 5% 1/4W	
R547	1-249-423-11	CARBON 3.3K 5% 1/4W	
R548	1-216-349-00	METAL OXIDE 1 5% 1W	F
R549	1-215-890-11	METAL OXIDE 470 5% 2W	F
R550	1-249-440-11	CARBON 82K 5% 1/4W	
R551	1-246-545-00	CARBON 1M 5% 1/4W	
R553	1-215-869-11	METAL OXIDE 1K 5% 1W	F
R554	1-249-411-11	CARBON 330 5% 1/4W	
R555	1-249-749-00	CARBON 2.2M 5% 1/4W	
R556	1-249-405-11	CARBON 100 5% 1/4W	
R557	1-249-425-11	CARBON 4.7K 5% 1/4W	
R558	1-247-903-00	CARBON 1M 5% 1/4W	
R559	1-249-427-11	CARBON 6.8K 5% 1/4W	
R560	1-249-411-11	CARBON 330 5% 1/4W	
R561	1-249-421-11	CARBON 2.2K 5% 1/4W	
R562	1-249-420-11	CARBON 1.8K 5% 1/4W	
R563	1-249-417-11	CARBON 1K 5% 1/4W	
R565	1-249-423-11	CARBON 3.3K 5% 1/4W	
R566	1-249-435-11	CARBON 33K 5% 1/4W	
R567	1-249-422-11	CARBON 2.7K 5% 1/4W	
R569	1-249-405-11	CARBON 100 5% 1/4W	
R570	1-249-435-11	CARBON 33K 5% 1/4W	
R571	1-249-437-11	CARBON 47K 5% 1/4W	
R572	1-249-429-11	CARBON 10K 5% 1/4W	
R573	1-249-421-11	CARBON 2.2K 5% 1/4W	
R575	1-249-435-11	CARBON 33K 5% 1/4W	
R585	1-249-422-11	CARBON 2.7K 5% 1/4W	
R591	1-249-427-11	CARBON 6.8K 5% 1/4W	
R592	1-249-429-11	CARBON 10K 5% 1/4W	
R593	1-249-429-11	CARBON 10K 5% 1/4W	
R594	1-249-424-11	CARBON 3.9K 5% 1/4W	
R595	1-249-417-11	CARBON 1K 5% 1/4W	
R596	1-249-425-11	CARBON 4.7K 5% 1/4W	
R597	1-249-425-11	CARBON 4.7K 5% 1/4W	
R598	1-249-405-11	CARBON 100 5% 1/4W	
R599	1-249-405-11	CARBON 100 5% 1/4W	
R802	1-249-474-11	CARBON 1 5% 1/2W	F
R805	1-249-474-11	CARBON 1 5% 1/2W	F
R806	1-249-467-11	CARBON 68K 5% 1/4W	
R807	1-215-869-11	METAL OXIDE 1K 5% 1W	F
R809	1-247-756-11	CARBON 2.2K 5% 1/2W	
R812	1-214-907-00	METAL 56K 1% 1/2W	
R815	1-212-972-00	FUSIBLE 39 5% 1/2W	F
R816	1-215-868-00	METAL OXIDE 680 5% 1W	F
R817	1-249-417-11	CARBON 1K 5% 1/4W	
R820	1-249-403-11	CARBON 68 5% 1/4W	
R821	1-247-725-11	CARBON 10K 5% 1/4W	F
R822	1-217-778-11	FUSIBLE 1K 5% 1W	F

D

REF.NO.	PART NO.	DESCRIPTION	REMARK
R825	1-216-341-11	METAL OXIDE 0.22 5% 1W	F
R831	1-249-443-11	CARBON 0.47 5% 1/4W	F
R832	1-247-692-11	CARBON 22 5% 1/4W	F
R833	1-216-379-11	METAL OXIDE 6.8 5% 2W	F
R834	1-249-482-11	CARBON 4.7 5% 1/2W	F
R835	1-215-884-11	METAL OXIDE 47 5% 2W	F
R836	1-215-884-11	METAL OXIDE 47 5% 2W	F
R837	1-215-911-11	METAL OXIDE 100 5% 3W	F
R839	1-249-429-11	CARBON 10K 5% 1/4W	
R840	1-249-496-11	CARBON 100K 5% 1/2W	
R841	1-247-713-11	CARBON 1K 5% 1/4W	
R842	1-247-713-11	CARBON 1K 5% 1/4W	
R843	1-216-389-11	METAL OXIDE 1 5% 3W	F
R844	1-215-421-00	METAL 1K 1% 1/6W	
R845	1-214-913-00	METAL 100K 1% 1/2W	
R846	1-249-496-11	CARBON 100K 5% 1/2W	
R847	1-249-429-11	CARBON 10K 5% 1/4W	
R848	1-215-925-11	METAL OXIDE 22K 5% 3W	F
R849	1-215-925-11	METAL OXIDE 22K 5% 3W	F
R1501	1-249-462-11	CARBON 22K 5% 1/4W	
R1502	1-249-434-11	CARBON 27K 5% 1/4W	
R1503	1-247-895-00	CARBON 470K 5% 1/4W	
R1504	1-249-435-11	CARBON 33K 5% 1/4W	
R1505	1-249-433-11	CARBON 22K 5% 1/4W	
R1506	1-247-895-00	CARBON 470K 5% 1/4W	
R1507	1-247-895-00	CARBON 470K 5% 1/4W	
R1508	1-249-438-11	CARBON 56K 5% 1/4W	
R1509	1-249-441-11	CARBON 100K 5% 1/4W	
R1510	1-249-426-11	CARBON 5.6K 5% 1/4W	
R1511	1-249-417-11	CARBON 1K 5% 1/4W	
R1512	1-247-725-11	CARBON 10K 5% 1/4W	
R1513	1-247-883-00	CARBON 150K 5% 1/4W	
R1514	1-249-417-11	CARBON 1K 5% 1/4W	
R1516	1-249-432-11	CARBON 18K 5% 1/4W	
R1517	1-249-411-11	CARBON 330 5% 1/4W	
R1518	1-249-429-11	CARBON 10K 5% 1/4W	
R1519	1-247-897-11	CARBON 560K 5% 1/4W	
R1520	1-247-897-11	CARBON 560K 5% 1/4W	
R1521	1-249-427-11	CARBON 6.8K 5% 1/4W	
R1552	1-249-426-11	CARBON 5.6K 5% 1/4W	
R1553	1-215-917-11	METAL OXIDE 1K 5% 3W	F
R1554	1-249-407-11	CARBON 150 5% 1/4W	
R1602	1-247-722-11	CARBON 5.6K 5% 1/4W	
R1636	1-249-437-11	CARBON 47K 5% 1/4W	
R1637	1-249-437-11	CARBON 47K 5% 1/4W	
R1638	1-249-413-11	CARBON 470 5% 1/4W	
R1639	1-249-441-11	CARBON 100K 5% 1/4W	
R1643	1-247-721-11	CARBON 4.7K 5% 1/4W	
R1644	1-247-718-11	CARBON 2.7K 5% 1/4W	
R1656	1-249-415-11	CARBON 680 5% 1/4W	
R1657	1-249-411-11	CARBON 330 5% 1/4W	
R1658	1-249-411-11	CARBON 330 5% 1/4W	F
R1660	1-215-911-11	METAL OXIDE 100 5% 3W	F
R1720	1-249-421-11	CARBON 2.2K 5% 1/4W	
R1721	1-249-429-11	CARBON 10K 5% 1/4W	
R1722	1-249-421-11	CARBON 2.2K 5% 1/4W	
R1723	1-249-427-11	CARBON 6.8K 5% 1/4W	
R1724	1-249-429-11	CARBON 10K 5% 1/4W	
R1725	1-249-429-11	CARBON 10K 5% 1/4W	
R1726	1-249-441-11	CARBON 100K 5% 1/4W	
R1728	1-215-890-11	METAL OXIDE 470 5% 2W	F
R1729	1-216-449-11	METAL OXIDE 56 5% 2W	F
R1730	1-249-441-11	CARBON 100K 5% 1/4W	
R1731	1-215-869-11	METAL OXIDE 1K 5% 1W	F
R1733	1-249-414-11	CARBON 560 5% 1/4W	
R1734	1-249-393-11	CARBON 10 5% 1/4W	
R1735	1-249-428-11	CARBON 8.2K 5% 1/4W	
R1736	1-247-895-00	CARBON 470K 5% 1/4W	
R1737	1-249-429-11	CARBON 10K 5% 1/4W	
R1738	1-249-421-11	CARBON 2.2K 5% 1/4W	
R1739	1-249-429-11	CARBON 10K 5% 1/4W	
R1740	1-249-435-11	CARBON 33K 5% 1/4W	
R1741	1-249-429-11	CARBON 10K 5% 1/4W	
R1742	1-249-432-11	CARBON 18K 5% 1/4W	
R1743	1-247-895-00	CARBON 470K 5% 1/4W	
R1744	1-249-429-11	CARBON 10K 5% 1/4W	
R1745	1-249-415-11	CARBON 680 5% 1/4W	
R1746	1-249-424-11	CARBON 3.9K 5% 1/4W	
R1747	1-249-433-11	CARBON 22K 5% 1/4W	
R1748	1-249-424-11	CARBON 3.9K 5% 1/4W	
R1749	1-249-441-11	CARBON 100K 5% 1/4W	
R1750	1-249-409-11	CARBON 220 5% 1/4W	
R1751	1-249-429-11	CARBON 10K 5% 1/4W	
R1752	1-249-423-11	CARBON 3.3K 5% 1/4W	
R1754	1-249-429-11	CARBON 10K 5% 1/4W	
R1755	1-249-429-11	CARBON 10K 5% 1/4W	
R1756	1-247-713-11	CARBON 1K 5% 1/4W	
R1757	1-249-413-11	CARBON 470 5% 1/4W	
R1758	1-249-423-11	CARBON 3.3K 5% 1/4W	
R1759	1-215-906-11	METAL OXIDE 15 5% 3W	F
R1760	1-249-419-11	CARBON 1.5K 5% 1/4W	
R1761	1-249-426-11	CARBON 5.6K 5% 1/4W	
R1762	1-215-858-00	METAL OXIDE 15 5% 1W	F
R1763	1-249-421-11	CARBON 2.2K 5% 1/4W	
R1764	1-249-409-11	CARBON 220 5% 1/4W	
R1774	1-249-421-11	CARBON 2.2K 5% 1/4W	
R1775	1-249-429-11	CARBON 10K 5% 1/4W	
R1776	1-247-706-11	CARBON 330 5% 1/4W	
R1778	1-249-423-11	CARBON 3.3K 5% 1/4W	
R1779	1-249-422-11	CARBON 2.7K 5% 1/4W	
R1780	1-249-437-11	CARBON 47K 5% 1/4W	
R1781	1-249-427-11	CARBON 6.8K 5% 1/4W	
R1787	1-249-425-11	CARBON 4.7K 5% 1/4W	
R1792	1-249-435-11	CARBON 33K 5% 1/4W	
R1794	1-249-419-11	CARBON 1.5K 5% 1/4W	
R5113	1-249-467-11	CARBON 68K 5% 1/4W	
R513A	1-249-461-11	CARBON 18K 5% 1/4W	
R5501	1-247-725-11	CARBON 10K 5% 1/4W	
R5502	1-249-417-11	CARBON 1K 5% 1/4W	
R5503	1-249-429-11	CARBON 10K 5% 1/4W	
R5504	1-249-459-11	CARBON 12K 5% 1/4W	
R5505	1-215-870-11	METAL OXIDE 1.5K 5% 1W	F
R5508	1-247-700-11	CARBON 100 5% 1/4W	
R5511	1-249-429-11	CARBON 10K 5% 1/4W	
		<VARIABLE RESISTOR>	
RV502	1-238-016-11	RES, ADJ, CARBON 10K	
RV1501	1-238-023-11	RES, ADJ, CARBON 470K	
RV1502	1-238-016-11	RES, ADJ, CARBON 10K	
RV1503	1-238-017-11	RES, ADJ, CARBON 22K	
RV1504	1-238-012-11	RES, ADJ, CARBON 1K	
RV1505	1-238-023-11	RES, ADJ, CARBON 470K	
RV1506	1-238-017-11	RES, ADJ, CARBON 22K	
RV1507	1-238-009-11	RES, ADJ, CARBON 220	
RV1508	1-238-015-11	RES, ADJ, CARBON 4.7K	
RV1509	1-238-023-11	RES, ADJ, CARBON 470K	

D V

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK
RV1701	1-238-012-11	RES, ADJ, CARBON 1K	
RV1702	1-238-016-11	RES, ADJ, CARBON 10K	
RV1703	1-238-012-11	RES, ADJ, CARBON 1K	
RV1704	1-238-016-11	RES, ADJ, CARBON 10K	
RV1705	1-238-016-11	RES, ADJ, CARBON 10K	
		<SPARK GAP>	
SG801	1-519-063-99	DISCHARGING GAP	
		<TRANSFORMER>	
T801	⚠ 1-437-090-21	HDT [illegible]	
T802	⚠ 1-439-418-51	TRANSFORMER ASSY, FLYBACK (NX-1618)	
T803	1-413-059-00	TRANSFORMER, FERRITE (DFT)	
T804	1-459-957-11	TRANSFORMER	
T805	1-421-794-11	TRANSFORMER, FERRITE (PWT)	
		**********	
	*A-1347-042-A	V BOARD, COMPLETE	
		**********	
		<CAPACITOR>	
C01	1-126-101-11	ELECT 100MF 20% 16V	
C02	1-124-120-11	ELECT 220MF 20% 16V	
C03	1-124-119-00	ELECT 330MF 20% 16V	
C04	1-124-477-11	ELECT 47MF 20% 16V	
C05	1-126-101-11	ELECT 100MF 20% 16V	
C06	1-124-120-11	ELECT 220MF 20% 16V	
C07	1-136-177-00	FILM 1MF 5% 50V	
C08	1-102-951-00	CERAMIC 15PF 5% 50V	
C09	1-102-074-00	CERAMIC 0.001MF 10% 50V	
C10	1-102-824-00	CERAMIC 470PF 5% 50V	
C11	1-106-375-12	MYLAR 0.022MF 10% 100V	
C12	1-102-980-00	CERAMIC 270PF 5% 50V	
C13	1-102-973-00	CERAMIC 100PF 5% 50V	
C14	1-102-951-00	CERAMIC 15PF 5% 50V	
C15	1-102-961-00	CERAMIC 27PF 5% 50V	
C16	1-106-367-00	MYLAR 0.01MF 10% 100V	
C17	1-136-161-00	MYLAR 0.047MF 10% 50V	
C18	1-102-953-00	CERAMIC 18PF 5% 50V	
C19	1-136-161-00	MYLAR 0.047MF 10% 50V	
C20	1-102-978-00	CERAMIC 220PF 5% 50V	
C21	1-136-163-00	MYLAR 0.068MF 10% 50V	
C24	1-126-101-11	ELECT 100MF 20% 16V	
C25	1-124-477-11	ELECT 47MF 20% 16V	
C27	1-102-820-00	CERAMIC 330PF 5% 50V	
C28	1-102-116-00	CERAMIC 680PF 10% 50V	
C29	1-124-927-11	ELECT 4.7MF 20% 50V	
C38	1-101-884-00	CERAMIC 56PF 5% 50V	
C51	1-136-165-00	MYLAR 0.1MF 10% 50V	
C52	1-136-165-00	MYLAR 0.1MF 10% 50V	
C53	1-136-165-00	MYLAR 0.1MF 10% 50V	
C54	1-136-165-00	MYLAR 0.1MF 10% 50V	
C55	1-136-165-00	MYLAR 0.1MF 10% 50V	
C56	1-136-165-00	MYLAR 0.1MF 10% 50V	
C57	1-102-074-00	CERAMIC 0.001MF 10% 50V	
C58	1-102-074-00	CERAMIC 0.001MF 10% 50V	
		<CONNECTOR>	
CNV01	*1-564-506-11	PLUG, CONNECTOR 3P	
CNV02	*1-564-508-11	PLUG, CONNECTOR 5P	
CNV03	*1-564-509-11	PLUG, CONNECTOR 6P	
CNV04	*1-564-506-11	PLUG, CONNECTOR 3P	
CNV05	*1-564-505-11	PLUG, CONNECTOR 2P	
		<COMPOSITION CIRCUIT BLOCK>	
CP01	1-235-977-11	NETWORK, RES, THICK FILM	
CP02	1-235-977-11	NETWORK, RES, THICK FILM	
CP03	1-232-541-11	COMPOSITION CIRCUIT BLOCK	
		<TRIMMER>	
CT01	1-141-245-00	TRIMMER, CERAMIC	
		<DIODE>	
D01	8-719-109-89	DIODE RD5.6ES-B2	
D02	8-719-110-36	DIODE RD13ES-B2	
D03	8-719-911-19	DIODE 1SS119	
D04	8-719-109-69	DIODE RD3.6ES-B2	
		<IC>	
IC01	8-759-986-92	IC SMAB8461P-W177	
IC02	8-759-972-96	IC SAA5231-V6	
IC03	8-759-988-99	IC SAA5243P/E-M2	
IC04	8-752-328-03	IC CXK5864BSP-12L	
		<COIL>	
L01	1-408-411-00	INDUCTOR 15UH	
L02	1-410-468-11	INDUCTOR 6.8UH	
L03	1-410-468-11	INDUCTOR 6.8UH	
L04	1-410-468-11	INDUCTOR 6.8UH	
L05	1-410-468-11	INDUCTOR 6.8UH	
L06	1-410-468-11	INDUCTOR 6.8UH	
L15	1-410-468-11	INDUCTOR 6.8UH	
		<TRANSISTOR>	
Q01	8-729-808-76	TRANSISTOR 2SD1913SA	
Q02	8-729-140-96	TRANSISTOR 2SD774-34	
Q03	8-729-900-80	TRANSISTOR DTC114ES	
Q04	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q05	8-729-140-96	TRANSISTOR 2SD774-34	
Q06	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q07	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q09	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q10	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q11	8-729-119-78	TRANSISTOR 2SC2785-HFE	
		<RESISTOR>	
R01	1-215-867-00	METAL OXIDE 470 5% 1W F	
R02	1-249-425-11	CARBON 4.7K 5% 1/4W	
R04	1-215-867-00	METAL OXIDE 470 5% 1W F	
R05	1-247-700-11	CARBON 100 5% 1/4W	
R06	1-249-417-11	CARBON 1K 5% 1/4W	
R07	1-249-405-11	CARBON 100 5% 1/4W	
R08	1-249-411-11	CARBON 330 5% 1/4W	
R09	1-249-438-11	CARBON 56K 5% 1/4W	
R13	1-249-405-11	CARBON 100 5% 1/4W	
R14	1-249-405-11	CARBON 100 5% 1/4W	
R15	1-247-903-00	CARBON 1M 5% 1/4W	
R16	1-249-425-11	CARBON 4.7K 5% 1/4W	
R17	1-249-417-11	CARBON 1K 5% 1/4W	

V H2 H1 K

REF.NO.	PART NO.	DESCRIPTION	REMARK
R18	1-249-425-11	CARBON 4.7K 5% 1/4W	
R20	1-249-414-11	CARBON 560 5% 1/4W	
R27	1-249-408-11	CARBON 180 5% 1/4W	
R28	1-249-408-11	CARBON 180 5% 1/4W	
R29	1-249-408-11	CARBON 180 5% 1/4W	
R30	1-247-713-11	CARBON 1K 5% 1/4W	
R31	1-247-713-11	CARBON 1K 5% 1/4W	
R32	1-247-713-11	CARBON 1K 5% 1/4W	
R34	1-249-417-11	CARBON 1K 5% 1/4W	
R37	1-249-405-11	CARBON 100 5% 1/4W	
R38	1-249-416-11	CARBON 820 5% 1/4W	
R40	1-249-425-11	CARBON 4.7K 5% 1/4W	
R41	1-249-413-11	CARBON 470 5% 1/4W	
R43	1-249-420-11	CARBON 1.8K 5% 1/4W	
R45	1-247-713-11	CARBON 1K 5% 1/4W	
R47	1-247-699-11	CARBON 82 5% 1/4W	
R60	1-247-713-11	CARBON 1K 5% 1/4W	
		<VARIABLE RESISTOR>	
RV01	1-228-991-00	RES, ADJ, CARBON 2.2K	
		<CRYSTAL>	
X01	1-527-734-00	VIBRATOR, CRYSTAL	
X02	1-567-905-21	VIBRATOR, CRYSTAL	
X03	1-577-082-11	VIBRATOR, CERAMIC	
		**********	
	*1-630-234-11	H2 BOARD	
		********	
		<CONNECTOR>	
CNH21	*1-564-521-11	PLUG, CONNECTOR 6P	
		<SWITCH>	
S1	1-554-937-11	SWITCH, KEY BOARD	
S2	1-554-937-11	SWITCH, KEY BOARD	
S3	1-554-937-11	SWITCH, KEY BOARD	
S4	1-554-937-11	SWITCH, KEY BOARD	
S5	1-554-937-11	SWITCH, KEY BOARD	
S6	1-554-937-11	SWITCH, KEY BOARD	
		**********	
	*1-630-233-11	H1 BOARD	
		********	
		<CONNECTOR>	
CNH11	*1-564-522-11	PLUG, CONNECTOR 7P	
		<DIODE>	
D1	8-719-948-31	DIODE LD-201VR	
	*4-393-210-01	HOLDER, LED; D1	
D2	8-719-812-41	DIODE TLR124	
	*4-374-906-01	HOLDER (TV/V), LED; D2	
D3	8-719-812-41	DIODE TLR124	
	*4-374-906-01	HOLDER (TV/V), LED; D3	
D4	8-719-812-41	DIODE TLR124	
	*4-374-906-01	HOLDER (TV/V), LED; D4	
		<IC>	
IC1	8-741-139-80	IC BX-1398	
		**********	
	*A-1385-065-A	K BOARD, COMPLETE	
		**********	
	*4-377-007-01	CASE (UPPER LID), SHIELD	
	*4-377-008-01	CASE (BOTTOM LID), SHIELD	
	*4-377-009-01	CASE (MAIN), SHIELD	
		<CAPACITOR>	
C001	1-102-824-00	CERAMIC 470PF 5% 50V	
C002	1-130-477-00	MYLAR 0.0033MF 10% 50V	
C003	1-124-910-11	ELECT 47MF 20% 50V	
C004	1-130-477-00	MYLAR 0.0033MF 10% 50V	
C005	1-141-260-00	TRIMAR, CERAMIC	
C006	1-102-959-00	CERAMIC 22PF 5% 50V	
C008	1-124-927-11	ELECT 4.7MF 20% 50V	
C009	1-124-927-11	ELECT 4.7MF 20% 50V	
C010	1-124-927-11	ELECT 4.7MF 20% 50V	
C011	1-124-927-11	ELECT 4.7MF 20% 50V	
C012	1-124-910-11	ELECT 47MF 20% 50V	
C013	1-102-129-00	CERAMIC 0.01MF 10% 50V	
C014	1-102-980-00	CERAMIC 270PF 5% 50V	
C015	1-136-165-00	MYLAR 0.1MF 10% 50V	
C016	1-136-165-00	MYLAR 0.1MF 10% 50V	
C017	1-101-361-00	CERAMIC 150PF 5% 50V	
C018	1-124-463-00	ELECT 0.1MF 20% 50V	
C019	1-124-910-11	ELECT 47MF 20% 50V	
C020	1-124-910-11	ELECT 47MF 20% 50V	
C021	1-124-910-11	ELECT 47MF 20% 50V	
C022	1-124-910-11	ELECT 47MF 20% 50V	
C023	1-124-910-11	ELECT 47MF 20% 50V	
C024	1-124-910-11	ELECT 47MF 20% 50V	
C025	1-102-973-00	CERAMIC 100PF 5% 50V	
C026	1-124-927-11	ELECT 4.7MF 20% 50V	
C027	1-102-114-00	CERAMIC 470PF 10% 50V	
C028	1-102-114-00	CERAMIC 470PF 10% 50V	
C201	1-124-902-00	ELECT 0.47MF 20% 50V	
C202	1-124-902-00	ELECT 0.47MF 20% 50V	
C203	1-124-902-00	ELECT 0.47MF 20% 50V	
C204	1-124-902-00	ELECT 0.47MF 20% 50V	
C205	1-136-155-00	MYLAR 0.015MF 10% 50V	
C206	1-136-155-00	MYLAR 0.015MF 10% 50V	
C207	1-136-159-00	MYLAR 0.033MF 10% 50V	
C208	1-136-157-00	MYLAR 0.022MF 10% 50V	
C209	1-136-153-00	MYLAR 0.01MF 10% 50V	
C210	1-136-173-00	FILM 0.47MF 5% 50V	
C211	1-136-162-00	MYLAR 0.056MF 10% 50V	
C212	1-130-477-00	MYLAR 0.0033MF 10% 50V	
C213	1-136-157-00	MYLAR 0.022MF 10% 50V	
C214	1-130-481-00	MYLAR 0.0068MF 10% 50V	
C215	1-124-910-11	ELECT 47MF 20% 50V	
C216	1-102-114-00	CERAMIC 470PF 10% 50V	
C217	1-102-114-00	CERAMIC 470PF 10% 50V	
C218	1-123-875-11	ELECT 10MF 20% 50V	
C219	1-136-173-00	FILM 0.47MF 5% 50V	
C220	1-136-162-00	MYLAR 0.056MF 10% 50V	
C221	1-130-477-00	MYLAR 0.0033MF 10% 50V	
C222	1-136-157-00	MYLAR 0.022MF 10% 50V	

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REF.NO.	PART NO.	DESCRIPTION				REMARK
C223	1-130-481-00	MYLAR	0.0068MF	10%	50V	
C224	1-124-927-11	ELECT	4.7MF	20%	50V	
C225	1-123-875-11	ELECT	10MF	20%	50V	
C227	1-124-499-11	ELECT	1MF	20%	50V	
C228	1-123-875-11	ELECT	10MF	20%	50V	
C229	1-124-463-00	ELECT	0.1MF	20%	50V	
C230	1-123-875-11	ELECT	10MF	20%	50V	
C231	1-136-169-00	MYLAR	0.22MF	10%	50V	
C232	1-124-637-11	ELECT	1000MF	20%	50V	
C233	1-124-927-11	ELECT	4.7MF	20%	50V	
C234	1-123-875-11	ELECT	10MF	20%	50V	
C236	1-124-499-11	ELECT	1MF	20%	50V	
C237	1-123-875-11	ELECT	10MF	20%	50V	
C238	1-124-463-00	ELECT	0.1MF	20%	50V	
C239	1-123-875-11	ELECT	10MF	20%	50V	
C240	1-136-169-00	MYLAR	0.22MF	10%	50V	
C241	1-124-637-11	ELECT	1000MF	20%	50V	
C242	1-124-637-11	ELECT	1000MF	20%	50V	
C243	1-124-902-00	ELECT	0.47MF	20%	50V	
C244	1-124-902-00	ELECT	0.47MF	20%	50V	
C245	1-124-478-11	ELECT	100MF	20%	25V	
C246	1-124-478-11	ELECT	100MF	20%	25V	
C247	1-102-074-00	CERAMIC	0.001MF	10%	50V	
C248	1-102-074-00	CERAMIC	0.001MF	10%	50V	
C249	1-130-497-00	MYLAR	0.15MF	5%	50V	
C250	1-130-497-00	MYLAR	0.15MF	5%	50V	
C251	1-102-030-00	CERAMIC	330PF	10%	500V	
C252	1-102-030-00	CERAMIC	330PF	10%	500V	
C253	1-124-917-11	ELECT	33MF	20%	50V	
C254	1-124-917-11	ELECT	33MF	20%	50V	
C255	1-101-006-00	CERAMIC	0.047MF		50V	
		<FILTER>				
CF001	1-577-082-11	VIBRATOR, CERAMIC				
		<CONNECTOR>				
CNK1	*1-566-367-11	CONNECTOR, HINGE (RECEPTACLE)				
CNK2	*1-566-660-11	CONNECTOR, HINGE (PLUG) 18P				
CNK3	*1-564-515-11	PLUG, CONNECTOR 12P				
CNK4	*1-564-510-11	PLUG, CONNECTOR 7P				
CNK5	*1-564-509-11	PLUG, CONNECTOR 6P				
CNK6	*1-564-513-11	PLUG, CONNECTOR 10P				
CNK7	*1-564-508-11	PLUG, CONNECTOR 5P				
CNK8	*1-564-506-11	PLUG, CONNECTOR 3P				
CNK9	*1-566-367-11	CONNECTOR, HINGE (RECEPTACLE)				
CNK10	*1-566-660-11	CONNECTOR, HINGE (PLUG) 18P				
CNK11	*1-566-660-11	CONNECTOR, HINGE (PLUG) 18P				
CNK12	*1-564-881-11	PLUG, CONNECTOR 4P				
CNK13	*1-564-880-31	PLUG, CONNECTOR 3P				
CNK21	*1-564-505-11	PLUG, CONNECTOR 2P				
CNK22	*1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P				
CNK23	*1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P				
		<COMPOSITION CIRCUIT BLOCK>				
CP001	1-233-153-11	COMPOSITION CIRCUIT BLOCK				
		<DIODE>				
D001	8-719-109-71	DIODE RD3.9ES-B1				
D002	8-719-911-19	DIODE 1SS119				
D003	8-719-911-19	DIODE 1SS119				
D004	8-719-911-19	DIODE 1SS119				
D005	8-719-911-19	DIODE 1SS119				
D006	8-719-911-19	DIODE 1SS119				
D007	8-719-911-19	DIODE 1SS119				
D008	8-719-109-88	DIODE RD5.6ES-B1				
D009	8-719-109-88	DIODE RD5.6ES-B1				
D010	8-719-109-88	DIODE RD5.6ES-B1				
D011	8-719-109-88	DIODE RD5.6ES-B1				
D203	8-719-110-14	DIODE RD9.1ES-B3				
D204	8-719-911-19	DIODE 1SS119				
D205	8-719-911-19	DIODE 1SS119				
D206	8-719-110-14	DIODE RD9.1ES-B3				
D207	8-719-911-19	DIODE 1SS119				
D208	8-719-911-19	DIODE 1SS119				
D209	8-719-911-19	DIODE 1SS119				
		<IC>				
IC001	8-759-632-66	IC M37100M8-714SP				
IC002	8-759-972-43	IC PCD8582				
IC003	8-759-972-43	IC PCD8582				
IC004	8-759-157-40	IC UPC574J				
IC006	8-759-604-35	IC M5F78M05				
IC201	8-759-013-17	IC TDA6200				
IC202	8-759-922-40	IC LM1875				
IC203	8-759-922-40	IC LM1875				
		<COIL>				
L001	1-408-413-00	INDUCTOR	22UH			
L002	1-410-478-11	INDUCTOR	47UH			
		<TRANSISTOR>				
Q001	8-729-119-76	TRANSISTOR 2SA1175-HFE				
Q002	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q003	8-729-119-76	TRANSISTOR 2SA1175-HFE				
Q004	8-729-119-76	TRANSISTOR 2SA1175-HFE				
Q005	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q006	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q007	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q008	8-729-920-92	TRANSISTOR 2SD2096-EF				
Q009	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q010	8-729-119-76	TRANSISTOR 2SA1175-HFE				
Q011	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q201	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q203	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q205	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q206	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q207	8-729-119-76	TRANSISTOR 2SA1175-HFE				
Q208	8-729-119-76	TRANSISTOR 2SA1175-HFE				
Q209	8-729-900-89	TRANSISTOR DTC144ES				
		<RESISTOR>				
R001	1-249-431-11	CARBON	15K	5%	1/4W	
R002	1-249-413-11	CARBON	470	5%	1/4W	
R003	1-249-425-11	CARBON	4.7K	5%	1/4W	
R004	1-249-429-11	CARBON	10K	5%	1/4W	
R005	1-249-429-11	CARBON	10K	5%	1/4W	
R006	1-249-429-11	CARBON	10K	5%	1/4W	
R007	1-249-429-11	CARBON	10K	5%	1/4W	
R008	1-249-437-11	CARBON	47K	5%	1/4W	
R009	1-249-419-11	CARBON	1.5K	5%	1/4W	
R010	1-247-708-11	CARBON	470	5%	1/4W	

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

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REF.NO.	PART NO.	DESCRIPTION				REMARK
R011	1-247-708-11	CARBON	470	5%	1/4W	
R012	1-249-429-11	CARBON	10K	5%	1/4W	
R013	1-249-431-11	CARBON	15K	5%	1/4W	
R014	1-249-413-11	CARBON	470	5%	1/4W	
R015	1-249-413-11	CARBON	470	5%	1/4W	
R016	1-249-413-11	CARBON	470	5%	1/4W	
R017	1-249-411-11	CARBON	330	5%	1/4W	
R018	1-249-429-11	CARBON	10K	5%	1/4W	
R020	1-247-725-11	CARBON	10K	5%	1/4W	
R021	1-249-417-11	CARBON	1K	5%	1/4W	
R022	1-249-417-11	CARBON	1K	5%	1/4W	
R023	1-249-429-11	CARBON	10K	5%	1/4W	
R024	1-249-429-11	CARBON	10K	5%	1/4W	
R025	1-249-429-11	CARBON	10K	5%	1/4W	
R026	1-249-465-11	CARBON	47K	5%	1/4W	
R027	1-249-465-11	CARBON	47K	5%	1/4W	
R028	1-249-465-11	CARBON	47K	5%	1/4W	
R029	1-249-409-11	CARBON	220	5%	1/4W	
R032	1-249-429-11	CARBON	10K	5%	1/4W	
R033	1-249-429-11	CARBON	10K	5%	1/4W	
R034	1-249-429-11	CARBON	10K	5%	1/4W	
R035	1-249-431-11	CARBON	15K	5%	1/4W	
R037	1-249-433-11	CARBON	22K	5%	1/4W	
R038	1-249-459-11	CARBON	12K	5%	1/4W	
R039	1-249-459-11	CARBON	12K	5%	1/4W	
R040	1-247-721-11	CARBON	4.7K	5%	1/4W	
R041	1-249-435-11	CARBON	33K	5%	1/4W	
R042	1-249-461-11	CARBON	18K	5%	1/4W	
R043	1-249-417-11	CARBON	1K	5%	1/4W	
R044	1-249-417-11	CARBON	1K	5%	1/4W	
R045	1-249-417-11	CARBON	1K	5%	1/4W	
R046	1-249-417-11	CARBON	1K	5%	1/4W	
R047	1-249-417-11	CARBON	1K	5%	1/4W	
R048	1-247-725-11	CARBON	10K	5%	1/4W	
R049	1-249-431-11	CARBON	15K	5%	1/4W	
R050	1-249-425-11	CARBON	4.7K	5%	1/4W	
R051	1-249-425-11	CARBON	4.7K	5%	1/4W	
R052	1-247-708-11	CARBON	470	5%	1/4W	
R053	1-249-441-11	CARBON	100K	5%	1/4W	
R054	1-249-435-11	CARBON	33K	5%	1/4W	
R055	1-249-423-11	CARBON	3.3K	5%	1/4W	
R056	1-249-417-11	CARBON	1K	5%	1/4W	
R057	1-247-725-11	CARBON	10K	5%	1/4W	
R058	1-247-725-11	CARBON	10K	5%	1/4W	
R059	1-247-725-11	CARBON	10K	5%	1/4W	
R060	1-249-417-11	CARBON	1K	5%	1/4W	
R061	1-249-409-11	CARBON	220	5%	1/4W	
R062	1-249-429-11	CARBON	10K	5%	1/4W	
R063	1-249-429-11	CARBON	10K	5%	1/4W	
R064	1-249-429-11	CARBON	10K	5%	1/4W	
R065	1-249-436-11	CARBON	39K	5%	1/4W	
R066	1-249-431-11	CARBON	15K	5%	1/4W	
R067	1-249-409-11	CARBON	220	5%	1/4W	
R068	1-249-423-11	CARBON	3.3K	5%	1/4W	
R069	1-249-425-11	CARBON	4.7K	5%	1/4W	
R070	1-249-423-11	CARBON	3.3K	5%	1/4W	
R071	1-249-429-11	CARBON	10K	5%	1/4W	
R072	1-249-437-11	CARBON	47K	5%	1/4W	
R073	1-249-411-11	CARBON	330	5%	1/4W	
R074	1-215-900-11	METAL OXIDE	22K	5%	2W	F
R075	1-249-429-11	CARBON	10K	5%	1/4W	
R077	1-247-725-11	CARBON	10K	5%	1/4W	
R078	1-249-425-11	CARBON	4.7K	5%	1/4W	
R079	1-249-417-11	CARBON	1K	5%	1/4W	
R080	1-249-417-11	CARBON	1K	5%	1/4W	
R081	1-249-429-11	CARBON	10K	5%	1/4W	
R082	1-249-417-11	CARBON	1K	5%	1/4W	
R083	1-249-435-11	CARBON	33K	5%	1/4W	
R084	1-249-433-11	CARBON	22K	5%	1/4W	
R087	1-249-429-11	CARBON	10K	5%	1/4W	
R088	1-247-725-11	CARBON	10K	5%	1/4W	
R089	1-249-429-11	CARBON	10K	5%	1/4W	
R090	1-247-725-11	CARBON	10K	5%	1/4W	
R091	1-249-411-11	CARBON	330	5%	1/4W	
R092	1-247-725-11	CARBON	10K	5%	1/4W	
R093	1-247-718-11	CARBON	2.7K	5%	1/4W	
R094	1-249-461-11	CARBON	18K	5%	1/4W	
R095	1-247-724-11	CARBON	8.2K	5%	1/4W	
R096	1-249-460-11	CARBON	15K	5%	1/4W	
R097	1-247-725-11	CARBON	10K	5%	1/4W	
R098	1-249-417-11	CARBON	1K	5%	1/4W	
R099	1-247-719-11	CARBON	3.3K	5%	1/4W	
R202	1-247-704-11	CARBON	220	5%	1/4W	
R203	1-249-431-11	CARBON	15K	5%	1/4W	
R204	1-249-429-11	CARBON	10K	5%	1/4W	
R205	1-249-433-11	CARBON	22K	5%	1/4W	
R206	1-249-433-11	CARBON	22K	5%	1/4W	
R207	1-249-431-11	CARBON	15K	5%	1/4W	
R208	1-249-433-11	CARBON	22K	5%	1/4W	
R209	1-249-433-11	CARBON	22K	5%	1/4W	
R210	1-249-441-11	CARBON	100K	5%	1/4W	
R211	1-249-431-11	CARBON	15K	5%	1/4W	
R212	1-249-423-11	CARBON	3.3K	5%	1/4W	
R213	1-249-435-11	CARBON	33K	5%	1/4W	
R214	1-247-704-11	CARBON	220	5%	1/4W	
R215	1-247-704-11	CARBON	220	5%	1/4W	
R216	1-247-704-11	CARBON	220	5%	1/4W	
R217	1-247-704-11	CARBON	220	5%	1/4W	
R218	1-247-713-11	CARBON	1K	5%	1/4W	
R219	1-247-713-11	CARBON	1K	5%	1/4W	
R220	1-249-431-11	CARBON	15K	5%	1/4W	
R221	1-249-423-11	CARBON	3.3K	5%	1/4W	
R222	1-249-435-11	CARBON	33K	5%	1/4W	
R223	1-249-441-11	CARBON	100K	5%	1/4W	
R224	1-249-441-11	CARBON	100K	5%	1/4W	
R225	1-249-425-11	CARBON	4.7K	5%	1/4W	
R226	1-249-409-11	CARBON	220	5%	1/4W	
R231	1-249-469-11	CARBON	100K	5%	1/4W	
R232	1-249-433-11	CARBON	22K	5%	1/4W	
R233	1-249-433-11	CARBON	22K	5%	1/4W	
R234	1-249-429-11	CARBON	10K	5%	1/4W	
R235	1-247-891-00	CARBON	330K	5%	1/4W	
R237 ⚠	1-212-934-51	FUSIBLE	1	5%	1/2W	F
R238	1-249-441-11	CARBON	100K	5%	1/4W	
R239	1-249-441-11	CARBON	100K	5%	1/4W	
R240	1-249-425-11	CARBON	4.7K	5%	1/4W	
R241	1-249-409-11	CARBON	220	5%	1/4W	
R246	1-249-469-11	CARBON	100K	5%	1/4W	
R247	1-249-433-11	CARBON	22K	5%	1/4W	
R248	1-249-433-11	CARBON	22K	5%	1/4W	
R249	1-249-429-11	CARBON	10K	5%	1/4W	
R250	1-247-891-00	CARBON	330K	5%	1/4W	
R252 ⚠	1-212-934-51	FUSIBLE	1	5%	1/2W	F
R253	1-249-425-11	CARBON	4.7K	5%	1/4W	
R254	1-249-425-11	CARBON	4.7K	5%	1/4W	
R255	1-249-419-11	CARBON	1.5K	5%	1/4W	
R256	1-249-439-11	CARBON	68K	5%	1/4W	

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REF.NO.	PART NO.	DESCRIPTION				REMARK
R257	1-247-715-11	CARBON	1.5K	5%	1/4W	
R258	1-249-439-11	CARBON	68K	5%	1/4W	
R259	1-249-469-11	CARBON	100K	5%	1/4W	
R260	1-249-469-11	CARBON	100K	5%	1/4W	
R261	1-249-437-11	CARBON	47K	5%	1/4W	
R262	1-249-437-11	CARBON	47K	5%	1/4W	
R263	1-249-441-11	CARBON	100K	5%	1/4W	
R264	1-249-441-11	CARBON	100K	5%	1/4W	
R265	1-249-423-11	CARBON	3.3K	5%	1/4W	
R266	1-249-423-11	CARBON	3.3K	5%	1/4W	
R270	1-249-418-11	CARBON	1.2K	5%	1/4W	
R271	1-249-418-11	CARBON	1.2K	5%	1/4W	

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*A-1388-117-A J BOARD, COMPLETE
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<CAPACITOR>

REF.NO.	PART NO.	DESCRIPTION			REMARK
C1401	1-124-910-11	ELECT	47MF	20%	50V
C1402	1-126-103-11	ELECT	470MF	20%	16V
C1403	1-124-910-11	ELECT	47MF	20%	50V
C1404	1-124-910-11	ELECT	47MF	20%	50V
C1405	1-124-910-11	ELECT	47MF	20%	50V
C1407	1-124-910-11	ELECT	47MF	20%	50V
C1408	1-124-902-00	ELECT	0.47MF	20%	50V
C1409	1-102-824-00	CERAMIC	470PF	5%	50V
C1410	1-124-902-00	ELECT	0.47MF	20%	50V
C1411	1-102-824-00	CERAMIC	470PF	5%	50V
C1412	1-124-902-00	ELECT	0.47MF	20%	50V
C1413	1-124-902-00	ELECT	0.47MF	20%	50V
C1414	1-124-910-11	ELECT	47MF	20%	50V
C1415	1-101-003-00	CERAMIC	0.0047MF		50V
C1416	1-101-003-00	CERAMIC	0.0047MF		50V
C1417	1-124-910-11	ELECT	47MF	20%	50V
C1418	1-124-902-00	ELECT	0.47MF	20%	50V
C1419	1-126-101-11	ELECT	100MF	20%	16V
C1420	1-124-902-00	ELECT	0.47MF	20%	50V
C1421	1-124-902-00	ELECT	0.47MF	20%	50V
C1422	1-124-902-00	ELECT	0.47MF	20%	50V
C1425	1-101-003-00	CERAMIC	0.0047MF		50V
C1426	1-102-824-00	CERAMIC	470PF	5%	50V
C1427	1-102-824-00	CERAMIC	470PF	5%	50V
C1428	1-101-003-00	CERAMIC	0.0047MF		50V
C1431	1-124-910-11	ELECT	47MF	20%	50V
C1432	1-101-006-00	CERAMIC	0.047MF		50V
C1433	1-101-006-00	CERAMIC	0.047MF		50V
C1434	1-101-006-00	CERAMIC	0.047MF		50V
C1435	1-101-006-00	CERAMIC	0.047MF		50V
C1436	1-101-006-00	CERAMIC	0.047MF		50V
C1437	1-101-006-00	CERAMIC	0.047MF		50V
C1438	1-101-006-00	CERAMIC	0.047MF		50V
C1439	1-101-006-00	CERAMIC	0.047MF		50V
C1440	1-101-006-00	CERAMIC	0.047MF		50V
C1441	1-101-006-00	CERAMIC	0.047MF		50V

<CONNECTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
CN1401	1-536-996-11	TERMINAL BOARD, INPUT/OUTPUT	
CN1402	1-535-741-11	TERMINAL, S	
CN1403	1-565-838-11	PIN JACK BLOCK 2P	
CNJ1	1-568-016-11	SOCKET 21P	
CNJ2	1-568-016-11	SOCKET 21P	
CNJ3	*1-566-641-11	CONNECTOR, HINGE (TAB) 18P	
CNJ4	*1-566-641-11	CONNECTOR, HINGE (TAB) 18P	
CNJ5	*1-566-693-11	PIN, CONNECTOR 2P	

<DIODE>

REF.NO.	PART NO.	DESCRIPTION	REMARK
D1401	8-719-110-14	DIODE RD9.1ES-B3	
D1402	8-719-110-14	DIODE RD9.1ES-B3	
D1403	8-719-110-14	DIODE RD9.1ES-B3	
D1404	8-719-110-14	DIODE RD9.1ES-B3	
D1405	8-719-110-14	DIODE RD9.1ES-B3	
D1406	8-719-110-14	DIODE RD9.1ES-B3	
D1407	8-719-110-14	DIODE RD9.1ES-B3	
D1408	8-719-110-14	DIODE RD9.1ES-B3	
D1409	8-719-110-14	DIODE RD9.1ES-B3	
D1410	8-719-110-14	DIODE RD9.1ES-B3	
D1411	8-719-110-14	DIODE RD9.1ES-B3	
D1412	8-719-110-14	DIODE RD9.1ES-B3	
D1413	8-719-110-14	DIODE RD9.1ES-B3	
D1414	8-719-110-14	DIODE RD9.1ES-B3	

<IC>

REF.NO.	PART NO.	DESCRIPTION	REMARK
IC1401	8-752-032-27	IC CXA1114P	
IC1402	8-759-946-32	IC TEA2014A	

<COIL>

REF.NO.	PART NO.	DESCRIPTION	REMARK
L1401	1-459-407-00	COIL, FERRITE CHOKE	
L1402	1-459-407-00	COIL, FERRITE CHOKE	
L1403	1-459-407-00	COIL, FERRITE CHOKE	
L1404	1-459-407-00	COIL, FERRITE CHOKE	

<TRANSISTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
Q1401	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q1402	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q1403	8-729-119-76	TRANSISTOR 2SA1175-HFE	

<RESISTOR>

REF.NO.	PART NO.	DESCRIPTION				REMARK
R1401	1-249-409-11	CARBON	220	5%	1/4W	
R1402	1-249-409-11	CARBON	220	5%	1/4W	
R1403	1-249-437-11	CARBON	47K	5%	1/4W	
R1404	1-249-403-11	CARBON	68	5%	1/4W	
R1405	1-249-413-11	CARBON	470	5%	1/4W	
R1406	1-249-422-11	CARBON	2.7K	5%	1/4W	
R1407	1-249-417-11	CARBON	1K	5%	1/4W	
R1408	1-247-804-11	CARBON	75	5%	1/4W	
R1409	1-249-409-11	CARBON	220	5%	1/4W	
R1410	1-249-409-11	CARBON	220	5%	1/4W	
R1411	1-249-413-11	CARBON	470	5%	1/4W	
R1412	1-249-417-11	CARBON	1K	5%	1/4W	
R1413	1-247-688-11	CARBON	10	5%	1/4W	F
R1414	1-249-409-11	CARBON	220	5%	1/4W	
R1415	1-249-404-00	CARBON	82	5%	1/4W	
R1416	1-249-417-11	CARBON	1K	5%	1/4W	
R1417	1-247-713-11	CARBON	1K	5%	1/4W	
R1418	1-249-427-11	CARBON	6.8K	5%	1/4W	
R1419	1-249-429-11	CARBON	10K	5%	1/4W	
R1420	1-249-417-11	CARBON	1K	5%	1/4W	
R1421	1-249-434-11	CARBON	27K	5%	1/4W	
R1422	1-249-434-11	CARBON	27K	5%	1/4W	
R1423	1-249-434-11	CARBON	27K	5%	1/4W	
R1424	1-249-434-11	CARBON	27K	5%	1/4W	

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The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION				REMARK
R1425	1-249-434-11	CARBON	27K	5%	1/4W	
R1426	1-249-434-11	CARBON	27K	5%	1/4W	
R1427	1-249-409-11	CARBON	220	5%	1/4W	
R1428	1-249-409-11	CARBON	220	5%	1/4W	
R1429	1-249-409-11	CARBON	220	5%	1/4W	
R1430	1-249-440-11	CARBON	82K	5%	1/4W	
R1431	1-247-738-11	CARBON	82	5%	1/2W	F
R1432	1-249-427-11	CARBON	6.8K	5%	1/4W	
R1433	1-247-725-11	CARBON	10K	5%	1/4W	
R1434	1-247-804-11	CARBON	75	5%	1/4W	
R1435	1-247-895-00	CARBON	470K	5%	1/4W	
R1436	1-247-895-00	CARBON	470K	5%	1/4W	
R1437	1-247-804-11	CARBON	75	5%	1/4W	
R1438	1-249-404-00	CARBON	82	5%	1/4W	
R1439	1-249-404-00	CARBON	82	5%	1/4W	
R1440	1-249-404-00	CARBON	82	5%	1/4W	
R1441	1-247-895-00	CARBON	470K	5%	1/4W	
R1442	1-247-895-00	CARBON	470K	5%	1/4W	
R1443	1-249-437-11	CARBON	47K	5%	1/4W	
R1444	1-249-413-11	CARBON	470	5%	1/4W	
R1445	1-249-437-11	CARBON	47K	5%	1/4W	
R1446	1-249-437-11	CARBON	47K	5%	1/4W	
R1447	1-249-437-11	CARBON	47K	5%	1/4W	
R1448	1-247-704-11	CARBON	220	5%	1/4W	
R1449	1-247-804-11	CARBON	75	5%	1/4W	
R1450	1-249-415-11	CARBON	680	5%	1/4W	
R1451	1-249-415-11	CARBON	680	5%	1/4W	
R1452	1-249-408-11	CARBON	180	5%	1/4W	
R1453	1-249-408-11	CARBON	180	5%	1/4W	
R1454	1-247-708-11	CARBON	470	5%	1/4W	
R1455	1-247-708-11	CARBON	470	5%	1/4W	

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MISCELLANEOUS
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REF.NO.	PART NO.	DESCRIPTION	REMARK
	⚠1-426-433-11	COIL, DEMAGNETIZATION	
	⚠1-451-315-11	DEFLECTION YOKE (Y34FXA)	
	1-452-032-00	MAGNET, DISK; 10MM ϕ	
	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM ϕ	
	⚠1-452-468-11	NECK ASSY, PICTURE TUBE (NA321)	
	⚠1-574-745-11	CORD, POWER (WITH CONNECTOR)	
S901	⚠1-571-877-11	SWITCH, PUSH (AC POWER)	
V901	⚠8-733-721-05	PICTURE TUBE (A80JYV10X)	

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ACCESSORIES AND PACKING MATERIALS
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PART NO.	DESCRIPTION	REMARK
A-1470-881-A	COMMANDER ASSY (RM-684)	
*X-4391-921-1	PLATE ASSY, BOTTOM	
3-750-002-91	MANUAL, INSTRUCTION	
*4-388-135-01	BAG, PROTECTION	
*4-391-970-01	BAND	
*4-392-445-01	CUSHION (UPPER) (ASSY)	
*4-392-446-01	CUSHION (LOWER) (ASSY)	
*4-392-932-01	CUSHION (FRONT)	
*4-393-236-01	INDIVIDUAL CARTON	